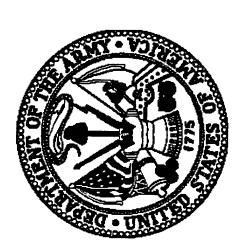
## FOR OFFICIAL USE ONLY

# **DEPARTMENT OF THE ARMY**

## PROCUREMENT PROGRAMS



Approved for public releases

Committee Staff Procurement Backup Book

FY1998/FY1999 BUDGET REQUEST

PROCUREMENT OF AMMUNITION, ARMY

Appropriation

DATE: February 1997

19970304 018



#### PLEASE CHECK THE APPROPRIATE BLOCK BELOW TO DOCUMENTS

-AQ #	
	copies are being forwarded. Indicate whether Statement A. B. C. D. E. F. or X applies.
X	DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE: DISTRIBUTION IS UNLIMITED
	DISTRIBUTION STATEMENT B: DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES ONLY: (Indicate Reason and Date). OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO (Indicate Controlling DoD Office).
	DISTRIBUTION STATEMENT C: DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS; (Indicate Reason and Date). OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO (Indicate Controlling DoD Office).
	DISTRIBUTION STATEMENT D: DISTRIBUTION AUTHORIZED TO DoD AND U.S. DoD CONTRACTORS ONLY; (Indicate Reason and Date). OTHER REQUESTS SHALL BE REFERRED TO (Indicate Controlling DoD Office).
	DISTRIBUTION STATEMENT E: DISTRIBUTION AUTHORIZED TO DoD COMPONENTS ONLY: (Indicate Reason and Date). OTHER REQUESTS SHALL BE REFERRED TO (Indicate Controlling DoD Office).
	DISTRIBUTION STATEMENT F: FURTHER DISSEMINATION ONLY AS DIRECTED BY (Indicate Controlling DoD Office and Date) or HIGHER DoD AUTHORITY.
	DISTRIBUTION STATEMENT X: DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND PRIVATE INDIVIDUALS OR ENTERPRISES ELIGIBLE TO OBTAIN EXPORT-CONTROLLED TECHNICAL DATA IN ACCORDANCE WITH DoD DIRECTIVE 5230-25, WITHHOLDING OF UNCLASSIFIED TECHNICAL DATA FROM PUBLIC DISCLOSURE, 6 Nov 1984 (Indicate date of determination). CONTROLLING DoD OFFICE IS (Indicate Controlling DoD Office)
	This document was previously forwarded to DTIC on (date) and the AD number is
	In accordance with provisions of DoD instructions, the document requested is not supplied because:
	It will be published at a later date. (Enter approximate date, if known).
	Other. (Give Reason)
	rective 5230.24, "Distribution Statements on Technical Documents," 18 Mar 87, contains seven distribution statements, as ed briefly above. Technical Documents must be assigned distribution statements.
J	Phone Conf Per: Larry Stopher  Print or Type Name  697-6241  Telephone Number
	- Company Cambridge

Program and Financing (in Thousands of dollars) Procurement of Ammunition, Army

316 899

00 FEB 97 PAGE - - 1 P GE

REPORT 24

SUMMARY

-39,300 62,800 -23,500 975,973 975,973 801,629 174,344 975,973 1,038,773 975,973 1999 est Rudget Plan (amounts for PROCUREMENI -40,600 1998 est. 196,725 694,177 890,902 61,100 952,002 890,902 890,902 890,902 actions programed) -41,800 1997 est. 800 -800 1,126,090 1,198,890 895,115 230,975 72,800 -4.500 1,121,590 1, 121, 590 1, 127, 149 -4.500 -1,059 -7,504 1996 actual 700 821,970 230,926 1,052,896 10,789 1,063,685 -10.758 4.500 - 115 1.047,223 1,098,212 -50,989 1,047,223 Unobligated balance transferred from other accounts (-) Available to finance subsequent year budget plans Unobligated balance transferred to other accounts Reprograming from/to prior year budget plans Reduction pursuant to P.L. 104-208 (-), 8138 Unobligated balance available, start of year: For completion of prior year budget plans Unobligated balance available, end of year: For completion of prior year budget plans Available to finance new budget plans Adjustments in expired accounts (net) Ammunition production base support Appropriation rescinded (unob bal) Transferred to other accounts (-) Recovery of prior year obligations Adjustments in unexpired accounts Relation of obligations to outlays: Obligated balance, start of year Obligated balance, end of year 21-2034-0-1-05 Offsetting collections from: Unobligated balance expiring Appropriation (adjusted) Non-Federal sources(-) Total direct program Reimbursable program Obligations incurred Program by activities: Budget authority Orders on hand, EDY Orders on hand, 50Y Federal funds(-) Budget authority: Appropriation Direct program: Ammunition Identification code Financing: Total 01.0101 21.4003 21.4009 74.4001 17.0001 72.1001 22.1001 24.4003 25.0001 00.0101 00.0201 00.9101 10.0001 11.0001 14.0001 21.4002 22.2001 24.4002 39.0001 40.3601 41.0001 43.0001 71.0001 78.0001 40.0001 40.7501 74.1001

Outlays (net)

90.0001

Procurement of Ammunition, Army
Program and Financing (in Thousands of dollars) SUMMARY

OO FER 97 PAGE 316

REPORT 21

			Obligations		
Identifi	Identification code 21-2034-0-1-051	1996 actual	1997 est.	1998 est.	1999 est.
00.0101	ns	896,881 209,286	880,158	684,405	795,886
00.9101	Total direct program	1, 106, 167	1,112,455	931,928	975,301
01.0101	Reimbursable program	13,407	78,509	61,100	62,800
10.0001	Total	1,119,574	1,190,964		1,038,101
11.0001 14.0001 17.0001	Financing: Offsetting collections from: Federal funds(-) Non-Federal sources(-) Recovery of prior year obligations	-5,133 -1,959 -27,309	-41,800	-40,600	-39,300
21.4002		-278,078	-235,044 -4,500	.243,770	-202,744
21.4009 22.1001 22.2001	Reprograming from/ to prior year budg Unobligated balance transferred to oth Unobligated balance transferred from o	700	- 800		
24.4002 24.4003 25.0001	Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget plans Unobligated balance expiring	1	243,770	202,744	203.416
39.0001	Budget authority	1,047,223	1,121,590	890,902	975,973
40.0001 40.3601 40.7501 41.0001	unob 104 unts	1,098,212	1,127,149 -4,500 -1,059	890,902	975,973
43.0001	Appropriation (adjusted)	1,047,223	1,121,590	890,902	975,973
		1,112,482	1,118,164	931,928	.30
72.4001	Obligated balance, start of year Orders on hand, EOY	1,477,541	1,684,451	1,593,337	1.571.461
74.4001 77.0001 78.0001	Obligated balance, end of year Adjustments in expired accounts (net) Adjustments in unexpired accounts	-1,684,451 -4,572 -27,309	-1,593,337	-1,571,461	1.574.448
90.0001	Outlays (net)	875,026	1,209,278	953,804	972,314

Procurement of Ammunition, Army Object Classification (in Thousands of dollars) SUMMARY

00 FEB 97 PAGE 317 TPGE 901

REPORT 21

Identification code 21-2034-0-1-051	1996 actual	1997 est.	1998 est.	1999 est
		· · · · · · · · · · · · · · · · · · ·		70
raver and transportation or persons	60	34	000	) (
Transportation of things	8.882	7,656	6,859	7,733
Advisory and assistance services	80	84	88	9.5
Other services with the private sector	401,234	345,834	309,835	349,321
Supplies and materials	692,617	755,990	612,556	615,235
Equipment	3,315	2,857	2,560	2,886
199.001 Total Direct obligations	1,106,167	1,112,455	931,928	975,30
Reimbursable obligations: 222.001 Transportation of things	. 135	734	B 16	633
Other services with the private sector	690'9	32,953	27,657	28.42
Supplies and materials	7,153	44,553	32,602	33,508
Equipment	50	269	225	282
299.001 Total Reimbursable obligations	13,407	78,509	61,100	62,800
200 000 Total obligations		1 190 964	800 666	1038 101

۴,

## PROCUREMENT OF AMMUNITION, ARMY

## **APPROPRIATION LANGUAGE**

equipment and training devices; expansion of public and private plants, including ammunition facilities authorized by procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant Section 2854, Title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and purposes; \$890,902,000 in fiscal year FY1998 to remain available for obligation until September 30, 2000, and and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing \$975,973,000 in fiscal year FY1999 to remain available for obligation until September 30, 2001.

# COMPARISON OF FY 1997 THE GRAM REQUIREMENTS AS REFLECTED IN THE FY 1997 BUDGET WITH THE FY1997 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1998/1999 BUDGET SUMMARY OF REQUIREMENTS (\$ in millions)

Appropriation Procurement of Ammunition, Army	FY 1997 Requirements Per FY1997 Budget	FY 1997 Requirements Per FY1998/1999 Budget	Increase or (Decrease)
Activity 1 - Ammunition	929	895	219
Activity 2 - Ammunition Production Support	178	231	53
Reimbursable Program	73	23	Ø
	926	1,199	273

## **EXPLANATION BY ACTIVITY**

Activity 1: Ammunition - The net increase (\$+219.4) resulted from congressional adjustments to CTG 5.56mm AT (\$+1.0), CTG 7.62mm Ammunition (\$+4.0), CTG 40mm AT (\$-1.4), 60mm Mortar 1/10 Practice (\$+0.2), 60mm Mortar Illum (+7.0), CTG Mortar 60mm HE 120mm M829A2 (\$24.0), CTG tank 120mm TP-T M831 (\$+2.4) CTG, Tank 120mm M830A1 (\$+31.0), Proj Artillery 155mm M795 M720(\$+10.0), 120mm Smoke XM929 (\$+4.9),120mm Illum XM930 (\$+6.6), 120mm Full Range Practice M931 (\$+1.5), CTG tank AT (\$+2.1), CTG 9mm AT (\$+1.0), CTG 50 Cal AT (\$+1.0), CTG 20mm AT (\$+0.3) CTG 25mm AT (\$+32.8), Special Purpose (\$+40.0), Proj Artillery 155mm SADARM (\$+33.5), Mine VOLCANO M87 (\$+15.0), Wide Area Munitions (\$-9.3), Selectable Lightweight Munition (SLAM) (\$+3.0) Bunker Defeat Munitions (\$+10.0), Grenades All Types (\$-3.5) and Signals All Types

A proportionate reduction was made for Section 8138 of the FY1997 Appropriations Act (\$-0.8)

Activity 2: Ammunition Production Support- the net increase (\$+53.3) resulted from congressional adjustments to Provision of Industrial Facilities (\$+1.5), Conventional Ammo Demil (\$+7.0), and Armament Retooling and Manufacturing Support (ARMS) (\$+45.0)

A proportionate reduction was made for Section 8138 of the FY1997 Appropriations Act (\$-0.2)

# COMPARISON OF FY 1997 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1998/1999 BUDGET WITH THE FY1998 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1998/1999 BUDGET SUMMARY OF REQUIREMENTS (\$ in millions)

Appropriation Procurement of Ammunition, Army	FY 1997 Requirements Per FY1998/1999 Budget	FY 1998 Requirements Per FY1998/1999 Budget	Increase or (Decrease)
Activity 1 - Ammunition	895	694	(201)
Activity 2 - Ammunition Production Support	231	197	(34)
Reimbursable Program	73	19	(12)
	1,199	952	(235)

## **EXPLANATION BY ACTIVITY**

Activity 1: Reductions in activity 1 (ammunition hardware) result from the FY 1997 congressional add of \$219 million for training, war reserve, and production base support items.

Activity 2: Reductions in activity 2 result from the FY 1997 congressional add of \$53 million for the Armament Retooling and Manufacturing Support Initiative and miscellaneous production base improvements.

Reimbursable Program: FY1998 reimbursable program decrease is due to the amount of projected services to be sold by the Army to defense contractors.

# COMPARISON OF FY 1998 TO CRAM REQUIREMENTS AS REFLECTED IN THE FY 1998/1999 BUDGET WITH THE FY1999 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1998/1999 BUDGET SUMMARY OF REQUIREMENTS (\$ in millions)

Appropriation Procurement of Ammunition, Army	FY 1998 Requirements Per FY1998/1999 Budget	FY 1999 Requirements Per FY1998/1999 Budget	Increase or (Decrease)
Activity 1 - Ammunition	694	802	108
Activity 2 - Ammunition Production Support	197	174	(23)
Reimbursable Program	61	83	7
	952	1,039	85
ì			

## **EXPLANATION BY ACTIVITY**

depleted to support training. Procurement of war reserve items decreases from 5 of 15 modernization items to 3 of 15 modernization items. Activity 1: Activity 1 (ammunition hardware) includes an increase in procurement of training ammunition even though training support will decrease from 90% to 86% of requirement. Increased procurements are needed because war reserves can no longer be

Ammo Demilitization (\$12.3 million), Maintenance of Inactive Facilities (\$4 million), and Layaway of Industrial Facilities (\$4.3 million) Activity 2: Activity 2 reflects reductions in the Armament Retooling and Manufacturing Support Initiative (\$5 million), Conventional

Reimbursable Program: The FY 1998 reimbursable program increase results from the direct sales by the Army to defense contractors and miscellaneous items under \$2 million. COMPARISON OF FY 1997 FINANCING
AS REFLECTED IN THE FY 1997 BUDGET
WITH THE FY 1997 FINANCING AS
REFLECTED IN THE FY 1998 BUDGET
SUMMARY OF FINANCING (\$ in millions)

Appropriation	FY 1997	FY 1997	
Procurement of Ammunition, Army	Financing Per	Financing Per	Increase
	FY 1997	FY 1998	or
	Budget	Budget	(Decrease)
Program Requirements (Total)	926	1,199	273
Program Requirements (Service Account)	853	1,126	273
Program Requirements (Reimbursable)	73	73	0
Less:			
Anticipated Reimbursements	(73)	(73)	0
Proposed Rescissions			

The net increase of \$+273.7 to the Procurement of Ammunition, Army appropriation resulted from the FY 1997 congressional add of \$274.7 million and the \$-1.0 million Section 8138 reduction. COMPARISON OF FY 1996 FINANCING
AS REFLECTED IN THE FY 1997 BUDGET
WITH THE FY 1996 FINANCING AS
REFLECTED IN THE FY 1998 BUDGET
SUMMARY OF FINANCING (\$ in millions)

Appropriation Procurement of Ammunition, Army	FY 1996 Financing Per	FY 1996 Financing Per	Increase
	FY 1997 Budget	FY 1998 Budget	or (Decrease)
Program Requirements (Total)	1.125	1 064	(64)
Program Requirements (Service Account)	1,078	1,064	(25)
Program Requirements (Reimbursable)	47	1	(35)
Less:		•	(22)
Anticipated Reimbursements	(47)	(11)	
Proposed Rescissions			

which results in a net change to the FY 1996 President's budget of \$-20.3 million; FY 96-16PA (Omnibus reprogramming), The Bosnia reprogrammings included a total change of \$-45.3 million (FY96-3 PA, \$-7.0 million; FY 96-11, \$-38.3 million) Direct Program: The FY 1996 President's budget contained a \$-25.0 million anticipated reprogramming for Bosnia. \$-5.7 million; FY 96-26PA (nonlethal weapons), \$+0.8 million.

Reimbursable Program: Orders did not materialize as planned, \$-36 million.

# BUDGET ACTIVITY 1

\*\*\*\*\*\*UNCLASSTRIED\*\*\*\*\*\*
DEPARTHENT OF THE ARMY
FY 98 PROCUREMENT PROGRAM
98 PRES

EXHIBIT P 1 DATE: 10 FEB: 97

ACTIVITY: 1 \*\*AMMUNITION\*\*

ī	
z	
ō	
H	
H	
Ξ	
~	
=	
÷	
~	
*	
٠	
•	
 Z	
. NO	
ION:	
TION:	
ATION:	
RIATION:	
IATION:	
RIATION:	
ROPRIATION:	
PROPRIATION:	
PPROPRIATION:	
PROPRIATION:	

2	X G F F		(DOLS)	1 1 2 3 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(THOUSANDS O	OF DOLLARS)			
NO.	NOMENCLATURE	ID	Ä	. X.	96	· >	97	>4		>- in	6.6
8 2 1		,		$\succ$	COST	QTY K	COST		COST	OTY	1800
(1)	(2)			(8)	(9)	(7)	(8)	(6)	(30)	(11)	(7.1)
	**SMALL/MEDIUM CALIBER AMMUNITION**	i i	1	1 4 1 1 1 1	1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	CTG, S.56MM, ALL TYPES (E00700)	⋖			58166		30723		63588		107413
~ 	CTG 5.56MM ARMOR PIERCING XM995 (P47600)	<	1405	815	1945	1438	1998	1406	1976	1175	1979
m ———	CTG, 7.62MM, ALL TYPES (E02000)	⋖			5361		5965		1136		21656
<b></b>	CTG 7.62MM ARMOR PIERCING XM993 (F47500)	<	1968	1520	3944	1030	1998	1013	1994	982	1979
.s	CTG, 9MM, ALL TYPES (EA3000)	۸			4580		666		4229		2724
•	CTG, .45 CAL, ALL TYPES (ER8110)	⋖							7.3		
۲	CTG, .50 CAL, ALL TYPES (E08000)	۷.			26708		4949		19977	-	24216
<b></b>	CTG CAL .50 API MK211 MOD 0 (F47400)	۸	6972	290	1944	300	2044	286	1994		
<u> </u>	CTG, 20MM, ALL TYPES (B08900)	<u> </u>					300				
10	CTG, 25MM, ALL TYPES (E08200)	۷.			68179		79924		88166		50005
11	CTG, 30MM, ALL TYPES (ER8120)	<b>«</b>			4169		9991		10357		1273
12	CTG, 40MM, ALL TYPES (ER8001)	⋖			48873		32969		26203		36845
	SUB-ACTIVITY TOTAL				223869		171860		219693		254090
	**MORTAR AMMUNITION**										
13	CTG MORTAR 60MM 1/10 PRAC M766 (E72000)	<	-	ın	3581	7	5214			~ ~	2677
<b>:</b>	CTG MORTAR 60MM ILLUM M721/M767 (870400)	⋖	<del></del>	22	22378	2 8	13139				
15	CTG MORTAR 60MM SMOKE WP M722 (870500)	⋖	206260					23	4744		
16	CIG MORTAR 60MM HE M720 (E67303)	- <del></del> -				0 9	9991				
-											

3 \*\*\*\*\*UNCLASSIFIED\*\*\*\*\*

EXHIBIT P 1 DATE: 10-FEB:97

ACTIVITY: 1 . AMMUNITION . .

APPROPRIATION: \*\*AMMUNITION\*\*

N N N N N N N N N N N N N N N N N N N	;				-		ξΩ.	DOLLAR			
0 2	WS L I	<u>.</u>			1	1 1	, , , , , , , , , , , , , , , , , , , ,	* ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	•		
••	NOMBNCLATURM			Y TO	COST	FY QTY K	97 COST	OT	COST	VIV	cost
	(2)	(3)		(5)	(9)	(7)	(8)	(6)		(11)	(12)
1,1	CTG HORTAR 81MM ILLUM M853A1 (E76100)	<u>-</u>	* 1 1		1 1 1 1 4 4 4 4 1	; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 5 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23	
8	CTG MORTAR BIMH SMOKE RP M819 (E76200)	۷		,,						# %	10730
6 7	CTG MORTAR 81MM PRAC 1/10 RANGE M880 (R19800)	۸		80	6 6 7 8						
50	CTG MORTAR 120MM FULL RANGE Practice M931 (R25507)	۸	414101	3.7	18244	127	50952	6.5	24432	7.7	32159
21	CTG MORTAR 120MM HE M934 W/MO PUZE (E25501)	<	934625					3.2	29908	1.2	29888
22	CTG MORTAR 120MM ILLUM XM930 W/MTSQ PZ (E25503)					11	25975				
23	CTG MORTAR 120MM SMOKE M929 W/MO FUZE (E25504)	⋖		57	65812	27	34967				
	SUB-ACTIVITY TOTAL				116579		140238	-	59084		87227
	**TANK AMMUNITION**			-							
2.4	CTG 120MM APFSDS-T M829A2/M829E3 (B78001)	حــــــــــــــــــــــــــــــــــــ	3472380	23	79808	2 9	103606	2 1	72920		
2 5	CTG 120MM HEAT-MP-T M830A1 (E78007)	⋖				σ,	30971				
5 6	CTG TANK 120MM TP-T M831/M831A1 (873300)	۷	652825	<u>•</u>	29053	93	54576	08	52226	8 9	46525
27	CTG TANK 120MM TPCSDS-T M865 (R73400)	۸	608809	132	89975	211	115542	184	111653	160	103515
	SUB-ACTIVITY TOTAL				19883		304695		236799		150040
	**ARTILLERY AMMUNITION **								<del></del>		
8 8	CTG ARTY 75MM BLANK M337A1 (B15200)	۷	42342	б. М	1459			7.0	2964	£.	1455
6 7 6	CTG ARTY 105MM DPICM XM915 (R53500)	<b>a</b>		<del></del>		9	14172				

4 \* \* \* \* \* \* UNCLASSIFIED \* \* \* \* \*

\*\*\*\*\*\*UNCLA FIED\*\*\*\*\*

DEPARTMENT OF THE ARMY

FY 98 PROCUREMENT PROGRAM

98 PRES

EXHIBIT P 1 DATE: 10-FEB-97

ACTIVITY: 1 \*\*AMMUNITION\*\*

٠	
?	
┪	
-	
2	
٩,	
2	
ŧ,	
ε	
⋖	
•	
•	
••	
Z	
Э	
4	
-	
⋖	
4	
¥	
٩,	
0	
¥	
۵,	
۵,	
۰	

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· <del></del>	(DOLS)	• • • • • • • • • • • • • • • • • • •	; ; ; ;	1)	OUSANDS	OF DOLLARS)			
SNIT			B 1	: :		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			:		
0	NORM CLAIORR	_	COST	<u>~</u> ~	ost	FY OTY K	97 COST	뇬	98 COS	FY QTY K	9.9 COST
: :		(3)	(+)	(3)	(9)	: _	(8)	f	10)	(11)	5)
0 0	PROJ ARTY 155MM SHOKE WP M825 (R67800)	<b>«</b>		· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,	· · · ·	15039	•	12586	1 1 1 1	12059
31	PROJ ARTY 155MM HE M795 (E66800)	⋖	-	130	55446	- <del>-</del> -	39962				
32	PROJ ARTY 155MM SADARM M898 (E66300)		133942	150	41103	009	671	507	61909	1085	
	SUB-ACTIVITY TOTAL				102997		162844		83459		91086
	**ARTILLERY FUZES**			-		-					
33	FUZE MULTI OPTION (ER8017)					······································			<del></del>	un.	9509
	SUB-ACTIVITY TOTAL				1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9509
	* * WINES * *				<del></del>		<del>, , , , , , , , , , , , , , , , , , , </del>				
34	MINE, TRAINING, ALL TYPES (EA0800)	<u> </u>			3745		1928				
35	MINE AT/AP H87 (VOLCANO) (E72195)	«		10	29162	9	14986				
36	WIDE AREA MUNITIONS (878100)		71269	106	14581	113	9991	215	15323	304	17891
	SUB-ACTIVITY TOTAL				7488		26905		15323		17891
	** ROCKBIS**							<u> </u>			
37	BUNKER DEFEATING MUNITION (BDM) (E88400)				14581		9991				
<b>.</b>	ROCKET, HYDRA 70, ALL TYPES (E37300)	۸	-		27302		26711		12067		120683
	SUB-ACTIVITY TOTAL				41883		36702		12067		120683
	**OTHER AMMUNITION **		-								
6 E	DEMOLITION MUNITIONS, ALL TYPES (855400)	⋖	-		30411		23199		18766		17910
÷	GRENADES, ALL TYPES (E34000)	<b>p</b>			23939		4164		14637		15480
<b>-</b>	SIGNALS, ALL TYPES (E46900)	<			17802		1281		7862		8369
					<del></del>						
										-	_

EXHIBIT P-1 DATE: 10-FEB-97

APPROPRIATION: \*\*AMMUNITION\*\*

ACTIVITY: 1 \*\*AMMUNITION\*\*

		1800	(12)	5962	47721		7054	1979	804	10654	6344	26835	801629	
:	FY 99	-		1	-									
:			, , ,	1 1	ı						_ <del></del>			
S)	1	COST	(10)	4573	45838		4823	1087	819	8627	6558	21914	694177	
DOLLAR	FY	QTY K		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
(THOUSANDS OF		COST	;		31413		4916	3809	663	5648	5422	20458	895115	
;	FY	OTY K	(2)	1							<del></del>			
		COST	(9)	3345	75497		2135	1472	2039	4860	4315	14821	821970	
1	Y W	1 x x t O	(8)	• • •	•									
FY 98	TIND	1 2 2 2 1						-						
	d I		(3)				«	۷.	۲	۸	۷			
ITEM	NOMENCLATURE			ALL TYPES (ES1200)	SUB-ACTIVITY TOTAL	**MISCELLANEOUS**	AMMO COMPONENTS, ALL TYPES (EBOO16)	CAD/PAD ALL TYPES (RA0003)	ITEMS LESS THAN \$2 MILLION (EA0055)	AMMUNITION PECULIAR EQUIPMENT (EA0575)	FIRST DESTINATION TRANSPORTATION (AMMO) (RA0550)	SUB-ACTIVITY TOTAL	ACTIVITY TOTAL	
		<del>-                                    </del>	(1)					<u> </u>						

6 \* \* \* \* \* UNCLASSIFIED \* \* \* \* \*

	SHEET
<b>)</b>	JUSTIFICATION
	ITEM
	BUDGET

)			7444	,				Ī		DATE			)	
	Lasmos	12.T	SOO E	BUDGET TIEM OUSTIFICATION	T.T.		SHEET	<u> </u>		FE	FEBRUARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	ITY				P-1 ITEM NOMENCLATURE	OMENCI	ATURE						T
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, AR	MY/ACTIVIT	Y 1. AMMU	NITION	Ĭ	CTG 5.56MM ALL TYPES	ALL T	YPES					(E0070U)	
	FY	96	FY 97	FY	86	FY 9	66	FY	00	FY	0.1	02 FY	, 03	ω
QUANTITY	-0-		-0-	-0-		-0-		-0-		-0-		0 -	-0-/-0-	
COST (In Millions) \$	\$ 58.2	₩ ₩	30.7	\$ 63.6	₩	107.4	w	109.5		ڊ    104.5		\$ 1.1	119.6	

DESCRIPTION:

This budget line includes 5.56MM ALL TYPES.

	A	AMMUNITI	TLIC	ON CC	COST	ANAL	ANALYSIS	(DOLLARS	NH	THOUSANDS	VDS)	
APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVI	H .	ACTIVITY: ARMY/ACTIVITY 1. AMMUNITION	MUNITION	CTG, 5.5	6MM, ALL	5.56MM, ALL TYPES (E00700)	700)		DATE	FEBRUARY 1997	76	
		96		Į.	97		FY	86		FY	66	
SSN/ITEM:	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
(E00701) CTG 5.56MM BALL M193	0	00.0	0	14325	0.27	3849	0	00.0	0	22675	0.30	6693
(E01100) CTG 5.56MM BLANK M200	0	00.0	0	0	00.0	0	18882	0.21	4023	83163	0.22	18089
(E01101) CTG 5.56MM BLANK M200 LINKED F/SAW	18742	0.38	7123	2535	0.39	666	38270	0.35	13552	27714	0.36	10021
(E04601) CTG 5.56MM BALL M855 F/M16A2	115870	0.39	45189	42984	0.39	16764	104494	0.36	38096	144181	0.37	53667
(E04602) CTG 5.56MM TRACER M856 F/M16A2	1491	0.57	850	0	00.0	0	6658	0.53	3538	7830	0.54	4228
(E04603) CTG 5.56MM BALL M855 LINKED F/SAW	7550	0.57	4304	0	00.0	0	9801	0.45	4379	8174	0.46	3729
(E04604) CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW	o	0.00	700	17521	0.52	9111	0	0.00	0	22007	0.50	10966
TOTAL P-1 LINE ITEM			58166			30723			63588			107413
DD F 2448, AUG 89				P-1 ITEM NO.	NO.	ā.	PAGE NO. 2	OF 48		EXHIBIT	P-5	

SHEET
JUSTIFICATION
ITEM
BUDGET

1997
FEBRUARY

DATE

									FEBRUARI 1997	1 1337
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITEM NOMENCLATURE	NCLATURE		
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMM	MUNITION,	ARMY/	ACTIVITY 1.	AMMUN	UNITION		CTG 5.56MM BALL M193	L M193		(E00701)
	FY	96	FY	76	FY	98	FY 99	FY 00	FY 0.1	01 02 FY 03
QUANTITY		-0-	14325		Ċ,		37 <i>5</i> 7E	1		PC011/ P1C01
(Thousands)		,	) 		>		6/077	09007	51101	1021//1136/
COST										
(In Millions)	₩	-0-	\$ 3.8		-0- \$	-07	\$ 6.7	\$ 3.0	\$ 3.1	\$ 3.2/3.9

#### DESCRIPTION:

The 5.56mm Ball M193 is an anti-personnel cartridge containing a 56 grain, gilding metal-jacketed bullet with a lead It is issued for use in the M16/M16A1 series rifle. This item is Code A, approved for service use. This item will be procured at a fixed standard price. antimony core.

### JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

### TYPE CLASSIFICATION DATE:

1975

Page of Pages Exhibit P-40

RCS: DD-COMP(AR)-1092

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 5.56MM BALL M193

RS IN: THOUSANDS)

DATE: FEBRUARY 1997

OMENCLATURE:

BALL M193

PCN:P02QM1DOC42

DATE: FEBRUARY 1997

(E00701)

											(10.000)	(10.
	FY 96 (QTY		^	FY 97 (QTY	143;	14324920) FY 98	7TQ) 86	Ā.i	_	FY 99 (QTY		22674750)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M2A1 3.PROPELIANT				14324920 17907	0.19	2702				22674750 28344	0.22	4982
WC844 (LB)			•	59306	5.74	341				93874	69.9	628
SUBTOTAL						3133						5776
PRODUCTION SUPPORT    1.PRODUCTION ENGINEERING   2.QUALITY ASSURANCE   3.ACCEPTANCE TESTING   4.INTERIM TRANSPORTATION   5.INDUSTRIAL STOCK SUPPOR   6.CAWCF GAIN/LOSS SURCHAR	: EERING E. NG TATION SUPPORT		=· · · · · · · · · · · · · · · · · · ·			143 143 34 30 124 381						590 14 66 42 205
SUBTOTAL						716						917
TOTAL P-1 LINE ITEM!	****	**	*	**************************************	0.27	.********* 3849!	****	***	*	**************************************	0.30	£699 £693

1 PAGE NO. 4 of 48

P-1 ITEM NO.

EXHIBIT P-5

PCN PO2QM1DOD4Z

	,	PROCUREMENT HISTORY & PLANNING	r HISTORY	& PLANNING	   1   1   1   1   1   1   1   1   1	DATE	1	FEBRUARY 1997	i !
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-C	1305-00-926-3970	970	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	VITY 1. AMMUNI	TION	CTG 5.	5.56MM BALL M193	193			(E00701)	01)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)		; ; ; ; ; ; ; ; ;	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 	: : : : : : !	: : : : : : : : : : : : : : : : : : : :
FY 1994 OLIN CORP	- SS/CPAF	IOC	NOV 93	OCT 94	30233400	.19			
FY 1997 OLIN CONTROL MO	SS/CPAF	IOC	MAR 97	OCT 97	14324920	0.19	YES	NO	
FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	22674750	0.22			
2. BOX METAL M2A1	ļ								
FY 1994 BROCKWAY STANDARD HOMEDITITE CA	C/FP	IOC	JAN 94	JUL 94	37792	5.68			
FY 1997 TBS FY 1999 TBS	C/FP C/FP	IOC	APR 97 JAN 99	AUG 97 JUL 99	17907 28344	5.03	YES	ON	
REMARKS:	1			; ; ; ;			 	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TBS - To Be Selected

P-1 ITEM NO. 1

PAGE NO. 5 of 48

EXHIBIT P-5A

PCN PO2QM1DOD4Z

		1	PROCUREMENT HISTORY & PLANNING	HISTORY &	PLANNING		DATE	DATE: FEBRUARY 1997	kY 1997	
APPROPRIATION/BUDGET ACTIVITY	ACTIVITY			P-1 ITE	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-00-926-3970	0-926-39	070	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	N, ARMY/ACTIVITY	1. AMMUNITIC	NC	CTG 5.5	CTG 5.56MM BALL M193	193			(E00701)	11)
LINE ITEM/ FISCAL YEAR CONTI	CCONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
3. PROPELLANT WC844 (LB) **	(LB) **		 	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			! ! ! !	! ! ! !	i 1 1 1 1 1
FY 1994 OLIN	1 1 1 1	SS/FP	IOC	AUG 94	SEP 94	128493	5.98			
FY 1997 OLIN		SS/FP	IOC	AUG 97	SEP 97	59306	5.74	YES	NO	
FY 1999 OLIN ST. MARKS, FL		SS/FP	IOC	AUG 99	SEP 99	93874	69.9			
REMARKS:					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			! 	1	) ; ; ; ;

\*\* PACING COMPONENT

P-1 ITEM NO. 1 PAGE NO. 6 of 48

6 of 48

EXHIBIT P-5A

The color of the	1			7 CM
1. AMORNITION		THEM		D-CORE TARY ASSE
FISCAL YEAR   FISCAL YEAR   State   FISCAL YEAR   State   St	ITY 1. AMMUNITION	5.56M		ОЭ
20	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	
Company   Dec.   June   June	96 CALENDAR YEAR	CALENDAR YEAR	CALENDAR YEAR	66
7.05 90, 50, 40, 50, 702, 02, 22, 02, 20, 20, 20, 20, 20, 20,	OCT NOV DEC JAN FEB HAR APR	JUL AUG SEP OCT NOV DEC JAN FEB NAR APR MAY	JUL AUG SEP OCT NOV DEC JAN FEB HAR	MAY JUN JUL AUG
2.09.02.01.700.02.02.02.02.02.02.03.00  2.09.02.01.700.02.01.02.02.02.02.02.03.00  2.09.02.01.700.02.02.02.02.02.02.03.00  2.09.02.01.700.02.02.02.02.02.02.03.00  2.09.02.01.700.02.02.02.02.02.02.02.02.02.02.02.02.0	00			
2.08.02.0.701.01.01.01.02.02.02.02.02.02.02.02.02.02.02.02.02.	00.			
2.09.02.0.100.01.01.01.01.01.01.01.01.01.01.01.	4.0	.01.01.01.01.01.01.01.	. 02. 02	
2.09.02.0.700.01.02.02.02.02.03.00.01.01.01.01.01.01.01.01.01.02.02.00.01.02.02.02.00.01.02.02.02.00.02.02.02.00.02.02.02.00.02.02	0.00			
11.0. (70, 50) 50, 40, 50, 702, 02, 02, 03, 04, 101, 01, 01, 01, 01, 01, 02, 02, 04, 101, 02, 02, 02, 03, 04, 101, 01, 01, 01, 01, 01, 01, 01, 02, 02, 02, 02, 01, 02, 02, 02, 03, 04, 03, 03, 03, 03, 03, 03, 03, 03, 03, 03	23.0			
11.0   10   50   50   40   50   702, 02, 02, 02, 02, 03   10   10   10   10   10   10   10	00.00			
14.0  14.0	17.0.70.90.50.40.50.702.0	32.02.03		
22.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	14.0	1.01.01.01.01.01.01.01.01.01.01	20.	
1.00   1.00	21.0		20:10:20:10:20:2	. 01 . 02 . 02
0.09 0.09 0.00 0.00 0.00 0.00 0.00 0.00				
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0				
0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00			
9.702.03.02.0.701.01.0 0.00 0.00 0.00 0.00 0.00 0.0	0.09	60.		
0.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10	0.09	60.		
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00			
9.702.08.02.07.01.01.01.01.01.01.01.01.01.01.01.01.01.	00.00			
9.702.08.02.0701.01.00 0.00 0.00 0.00 0.00 0.00 0.0				
0.14	9.702.03.02.0.701.01			
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	10 10.14	.14		
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	00.00			
0.00  9.702.03.02.07.01.01.01  12.02.03.02.02.02.02.02.02.02.02.02.02.02.02.02.	00.00			
17.2 70.90 5.04.01.01.01.02	00.00			
9.702.08.02.0.101.01.0 17.2.70.90.50.40.50.702.02.02.02.02.02.02.02.02.02.02.02.02.0				
17.2   70   90   50   40   50   70   20   20   20   20   20   20   2	9.702.03.02.0.701.01.0			
28.1  21.0	17.2.70, 90, 50, 40, 50, 702.02	32.02.03.		
21.0    PRODUCTION RATES   SWATTER DATE NATION   PRIOR   PROPER DESTRUCTION   PRIOR   PROPER DESTRUCTION   PROPE	28.1	2.12.02.02.02.02.02.02.02.02.02	04.04	
1202.7B.9P.5H.1H.5H.7P.0P.0P.0P.0P.0P.0P.0P.0P.0P.0P.0P.0P.0P	21.0		20 20 10 20 10 20 2	02 01 01
PROCUREMENT LEAD TIME   PROPERTY   LEAD TIME   LEAD TIME	1202.73.92.51.11.51.72.02	.32.02.03.20.12.02.02.02.02.02.02.	2.04.04.02.02.01.02.01.02.02	02.02.01.02.02
AFTER D-18A	PRODUCTION RATES HOWINS TO	LEAD TIME	= LB	
40.50 / 4.00 0         1 INITIAL         6         2         11         13         REORDER         6         11         1         12           REORDER         6         2         11         13         REORDER         6         11         1         12	UST 1-8-5 MAXIMUM AFTER D-DAY	PROD AFTER 1 OCT	UALT ALT	TOTAL
NITTIAL   2   11   13   REORDER   6   2   11   13   REORDER   6   11   12   13   REORDER   6   11   13   REORDER   6   13   REORDER   7   REORDE	0 03 1 00	11 13	6 11	12
6 2 11 13 OUANTITY	0 00:1	7 7 7	11	12
		6 2 11	110	

<del>.1</del>	107	ا ا	رقال	اعرب	44.0			000	000	0.00	00.0	162																	. 02. 02. 044.0					<u> </u>
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E00701		Τ	£ S		+	$\top$				1	14	П	$\top$	$\top$	+	$\dagger$	H	+	+	1		+	$\top$		$\dagger$	$  \cdot  $	+	哥				3	IN MILLIONS
Şol		]		AUG	$\top$		T		T	T	0			$\top$	1	$\dagger$			1	+	†		╁			1	H		8					깈
ONT!				Tac	$\Box$	1	T	+-	╁	<del>                                     </del>	6			+	T	+		$\forall$	$\dashv$	$\dagger$	+-		+	+	$\vdash$	+-		++	8				7	Σ
TS C				215	+	+	+	+	$\dagger$	H	8	Н	$\vdash$	+	+	+	Н	$\dashv$	+	+	+	$\dashv$	+	+	$\dashv$	+-	$\vdash$		引		,		7	3
EMEN P (A		1	6	MAY	++	$\dashv$	+-	+	╁	╁	6	Н	$\dashv$	+	+	+	$\vdash$	+	+	+	+	$\dashv$	+	+	$\dashv$	+	$\vdash$	1	3		TOTAL			
COM			99	APR M	+	-	+	╁	+-	+-	8	Н	$\vdash$	+	+	╁	Н	$\dashv$		+	$\vdash$	-	+	++	-	+	$\vdash$		70.70		5 5	12	Ę	7 7 7
ж Б		_	A.	MAR	$\dashv \dashv$		+-	╁	╁╴	┼	.07.07.07	Н		+	+	+-	Н	+		+	H	-	+	$\dashv$	+	+	$\vdash$		3				OITANTT#V	7
	i		CALENDAR YEAR	FEB M	+	$\dashv$	+	╁╴	╁╌	╁	8	$\vdash$	$\dashv$	+	+	╁	H	+	+	+	H	$\dashv$	+	┨┤	- -	+	$\vdash$	1 2	3	;	77 -			
İ		YEAR 99	LEND	JAN	++		╁	+	╀	┼	8	Н	$\dashv$	+	╀	╀	$\vdash$	-	+	╀	+	$\dashv$	-	$\vdash$	+				•1 1	<u>e</u>				
97			Ð	DEC	++		+	┿	╁	$\vdash$	6	H	-	-	+	+	$\left  \cdot \right $	$\dashv$	+	+-	H	+	+	++	+	+	-	1 15	3	11 3	ALT:	11		
1997		FISCAL			++	+	+	╀	╁	┼-	.07.07	Н	+	╅	+	+-	$\vdash$	$\dashv$		╁	+	+	<del> </del> -	+	$\dashv$	+	-	1 15		EN				
ARY		ISC		OCT NOV	++	+	+-	+	╁	$\vdash$	80.8	Н		+	+	╁	$\left  \cdot \right $	+	+	_	┦		┿	$\vdash$	-	+	-	1   6	; 	PON	OALT 6	o vo		
BRU!		17	┨	SEP	╁┼		+	+	╁	-	8	Н	$\dashv$	+	+	╀	Н	$\dashv$	+	┼-	$\vdash \vdash$	$\dashv$	+	₩	_	+1	-	<del>     </del>	, N	Z CO	3			П
DATE FEBRUARY					++	+	+	+	╀	10	8.0	Н	$\dashv$	+	+	╀	Н	+	+	╀		+	+-	$\vdash \vdash$	+	+	- -	+	<u>i</u>   9	PACING COMPONENT	ZAT.	E		
.T.Y(		1		1 AUG	+	+	+-	+	╀	101		H	$\dashv$	+	+	+	${f H}$	$\perp$	4	╀	$\vdash$	+	4	Н	_	11		1   5	MAR	ACII	INITEAL.	REORDER		
			_	JUL.	+	+	+	1	1	101	$\vdash$	$\vdash \vdash$	$\dashv$	+	+	+	$\sqcup$	+	+	╀_	$\sqcup$	+	$\bot$	$\vdash \vdash$	4	$\sqcup$	$\bot$	10 CO CO NO NO CO	判隔	<u>~</u>		22		
	三		98	Y CIN	+	+	+	╀	╀	10 1	H	Н	$\dashv$	- -	4	+	$\sqcup$	$\downarrow$	+	╀-	$\sqcup$	_	$\perp$	$\sqcup$	$\bot$	$\bot \bot$	<u> </u>	4	إ	T	oc.r		Τ	1
	ITEM NOMENCLATURE 5.56MM BALL M193	2		ά ΥΑ	++	+	+	╀	╀		H	$\dashv$	+	+	╀	╄	H	+	$\bot$	-	$\sqcup$	4	+	$\sqcup$	$\bot$	$\sqcup$	- -	4			7-	13	13	
	P-1 ITEM NOMENCLATU CTG 5.56MM BALL M193	_	<u>چ</u>	R APR	+	+	╀	╀	┝	09.0	Н	-1	+	- -	+	╄	$  \cdot  $	+	4-	L	$\vdash$	+	4	$\vdash$	_	$\sqcup$	$\bot$	1   2		E	AFTER 1			
	IEN Ver	86	CALENDAR YEAR	FEB MAR	++	+	╀	╀	}_	8	Н	$\dashv$	+	╁	╀	╀	Н	+	+	╀	$\sqcup$	- -	+	$\vdash \vdash$	4	$\sqcup$	_ _	وا ا		PROCUREMENT LEAD TIME	4		$\vdash$	×
1	NON M B	AR	LEND	JAN	++	+	╁	╀	-	8		$\dashv$	+	+	╀	╀	Н	+	+	H	$\square$	4	╀	$\vdash \vdash$	+	$\sqcup$		ع ا		EAD	PROD.	11	11	٩
	ЕМ 56М	X	5	DEC 23	++	+	╁	╁	┝	9. 0.		Н	+	+	+	$\vdash$	Н	+	+	H	Н	+	+	$\sqcup$	- -	$\sqcup$	-	<u> </u>			<u>a</u>			OK HORE
21	S	SAL	П	IQ NON	+	+	╁	╁	-	8	$\dashv$	$\dashv$	+	+	+	╁	Н	+	+	$\vdash$	$\vdash \vdash$	+	+-	H	+	$\dashv$	-	<del>   </del>   8		LEN	SEP	2	~	٢
P-21	P-1 CT3	)SI		E CO	++	+	╁	+	H	흥	-	$\dashv$	+	-	╁	+	H	+	+-	H	H	+	╀	$\vdash$	- -	$\vdash$	+	4-12		REN LEAD	A-		Ш	
	<u>~</u>	-		SEP	╁┼	+	╁	$\vdash$	$\vdash$	9.09		$\dashv$	+	+	╀	H	$\dashv$	+	+	-	╌┤		╀	$\vdash$	+-	H	+	1   8		OCU MIN	SE SE	9	و	<b> </b>
(EXHIBIT				AUG	++	+	╁		0.	9	$\dashv$	$\dashv$	┽	┿	╁	+	Н	+	╁	-	H	+	╀	$\vdash$	+-	H	+	Hg		PR	<u>г</u> -	ت.	$\Box$	9
H				JUL.	+	╁	╁	$\vdash$	.0	Н	$\dashv$	$\dashv$	+	+	╁	+	$\dashv$	+	╁		Н	+	+	$\vdash$	+	H	4-	9				'IAI	DE	١
X				NOS	╁┼	+	╁	H	וחיו	Н	$\dashv$	$\dashv$	+	╁	+-	$\vdash$	$\dashv$	┿	┿	Н	$\vdash \vdash$	+	╀	$\vdash \vdash$	+	+	+	1 2				INITIAL	REORDER	ON THEFT
$\neg$			9		H	+	╁╴	Н	.05.0	H	┪	+	+	+	╁	$\vdash$	$\dashv$	+	+	Н	$\vdash \vdash$	+	╀	$\vdash$	+	$\vdash \vdash$	+	1   8		1.		Н	24	ָן וְ
띩				APR KAY		+	$\vdash$	Н	9	$\dashv$	-	$\dashv$	╁	╁	+	Н	$\dashv$	+	+	Н	$\vdash \vdash$	+	╁	Н	╫	H	+	<del>   </del>	ן וּ	ă×c	Γ	П	$\top$	
訠			3		+	+	┢	Н	.05.05	$\dashv$	$\dashv$	$\dashv$	+	+	+	Н	$\dashv$	+	╁	Н	$\vdash$	+	╁	$\vdash$	+	H	+	112		# # # # # # # # # # # # # # # # # # #				
SCHEDULE	NOI	97	CALENDAR YEAR	PEB MAR	$\vdash$	╁		Н	8	$\dashv$	$\dashv$	$\dashv$	+	+	+	H	+	+	+	Н	H	╁	+	$\vdash \vdash$	+	H	+	11 51 75 00		MAL	2	1	$\perp$	
S	LI	SAR	VE END	NAN P	$\dagger \dagger$	4	<del> </del>	Н	8	$\forall$	$\dashv$	+	+	+	+	Н	$\dashv$	+	╁	Н	$\vdash$	+	+	$\vdash$	十	H	+	╂┼		SH	72.80	1.00		
- 1	)	, XI	Ü	2	$\dagger \dagger$	WC844		Н	8	$\dashv$	+	$\dashv$	+	十	╁╴	H		+	十	$\vdash$	$\vdash$	+	╁	H	+	╁┼	+			\$	17	1 1		
입	Α.	CAI		3	$\dagger \dagger$			Н	8	$\forall$	7	+	+	十	╁	Н	$\dashv$	╁	+	Н	$\vdash \uparrow$	╁	+	$\vdash$	+-	H	+	8		3	20.90	0.83		
PRODUCTION	1. AMMUNITION	SI	96	OCT NOV	ff	PROPELLANT	-	Н	5.05.05.05.05.05	$\dashv$	$\dashv$	7	十	+	╁	Н	+	+	╁	Н	$\vdash$	+	╁	H	+	H	+	73 92 51		PRODUCTION RATES HOWEN TO MINIMON A PATER PLAN	2			
ĔΙ	ĬĬ				44.0	HH		8	57.05	112	ᅙ	176	+	+	十	Н	$\dashv$	+	+	Н	$\forall$	+	╁╴	$\vdash$	╁	╁╅	+	1202			0.0	0.70	$\top$	
잆			AS OF	96	44	_	_	40.0 0.00	57	1	~;		$\downarrow$	_	L	Ц	_	$\perp$	_	Ц	Ш		L	Ш		Ш				X Z				
교		ACCEP. PRIOR	100 T	l G	0.00	Ę		9	23.0	0.00	0.00	0.0				$\  \ $			1									2 30				11		1
PI	ARMY/ACTIVITY		1	96	0	18		4	7	위			+	╁	╁	Н	+	+	+	Н	$\vdash$	+	╁	H	+	H	+	++-	1	ME	Ş			
۲	L	2T'Y		99	44.0	B						176							1	Ш										Ž	IND MO	료		
		¥	Ī	F.Y		NG COMPONENT:	П	П	П	T	97.0	T	T	T		П	T		Π	П		T			1	П		T ATE	-	RER				$\  \ $
Ę		PROGRAM QTY	-		-	PACIN	Н	H	$\dashv$	112	쒸	+	+	+	T	H	$\dashv$	+	$\dagger$	H	$\forall$	+		+	+	$\dagger \dagger$	+	TOTAL MONTHLY		MANUFACTURER NAME	Æ	ST MARKS,		
Ę		980		F.Y		Ā			ᅵ	7	4	4	1	_	╄	Ц	4	$\bot$	_	Ц		_	_	$\perp$	_	Ш	_ _			FA	E	E		
		-		7.4 96				40.0	80.0	-			١													П		TOL		DN.	ြ			
Ē		សមា	<u>د</u> ک		ALL		П	TOT		ŢŌŢ	Į.	TOT	T	T	Γ	П	T	T				T			T				l	M	LAKE CITY AAP,	OLIN,		
100		52.5		_	A	+	Н	X	는 는	Α I		X T	$\perp$	_	1		$\perp$	$\bot$	$\perp$	Ц	$\sqcup$	_	1		$\bot$	H	_	$\coprod$	}	_			+-	
was a subsection of the subsec	PROCUREMENT AMMUNITION			$\top$	$\prod$		П						T	T		П	1	T	Π	П	T	T			T	П	T	П		FAC		2		
ī	교	FAC	<u>8</u>					7	7	7	7	7		1		П	- 1												L	μ2	٢.,		لــــــــــــــــــــــــــــــــــــــ	1

SCHEDULE (EXHIBIT P-	1. AMMUNITION   CTG 5.56MM BALL M193	FISCAL YEAR FISCAL YEAR 01 02	99 CALENDAR YEAR 01 CALENDAR YEAR 01 CALENDAR YEAR 02	OCT NOV DEC JAN FEB WAR AFR WAY JUN JUL AUG SEP OCT NOV DEC JAN FEB WAR AFR WAY JUN JUL AUG SEP OCT NOV DEC JAN FEB WAR AFR WAY JUN JUL AUG SEP	00.0				02.02.02.02.00					2.0li.0li.0p.0li.0p.0p.0p.0p.0p.0p.0p.0p.0p.0				00.0								00	.03.04.04.04.0		ADMIN LEADTINE UAL.	1 oct 1 oct 1 oct 1 oct 1 oct 1 oct 1 1 1	0.83 1.00 0 INITIAL 6 2 11 13 REORDER 6	REORDER 6 2 11 13	SOUTH IN MITTIONS
띡	TIVIT	P. BAL FISCAL YEAR	M R 10 AS OF 99 CALENDAR YEAR	FY FY FY FY	0.00	0.00	1 M A 14.0 14.0 0.00	M A D.00 0.00 0.00	히	M AF D 00 0 00 0	AF 119.0	14.0	0.00	1.01.02.01.02.02.02.0	M DCM 0.00	DCM 0.09	0 00 00 00	1 M FMS 10.0   10.0   0.00	M FMS 0.14 0.14	M FMS   0.00   0.00   0.00	FMS 0.00	M FMS 0.00 0.00 0.00	10 00 00 00 pt	0.01	28.1	21.0	PROBÚC PLON 78.3 44.04.03.03.04.03.04.04	WANTIES CHIEFE WANTE	NO. & LOCATION MINIMUM 1-8-5 MAXIMUM AFTER D-DAY	LAKE CITY AAP, IND MO	1.00 0	REC	

DATE REGUIREMENTS CONTROL SYMROL DD-COMP (AR) 1092	ETSCAL VEAR	02	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00.0		CC	0.00	00.0	00.0									0.00	PEACEING COMPONENT = LB UALT ALT PLT TOTAL	INITIAL 6 11 1   REORDER 6 11 1	CONTINUE AT VARIETIES	- UNCLUMENT ITTIMES - UNCLUMENT -
CTION SCHEDULE (EXHIBIT	ENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION CTG FISCAL YEAR FISC	FAC U E PROGRAM QTY PRIOR DUE 100 AS OF 00 LAIRMAN WAS AA 100 AS OF 100 LAIRMAN WAS AA 10	V FY FY FY FY FY O 00 00 00 00 00 00 00 00 00 00 00 00 0	44.0 0.00	PACING COMPONENT: PROPELLANT WC844	×	K TOT 80.0 80.0	2 K TOT 112 112 0.00	K TOT 176								101AAL MONTHLY 70 2 11 01 02 01 01 01 01 01 01 01 01 01 01 01	10.10.10.10.10.10.10.10.10.10.10.10.10.1	RATES MONTHS TO PROCUREMENT LEAD TO THE MAXIMUM AFTER D-DAY PRIOR LEADTHE	1         LAKE CITY AAP, IND MO         0.00 20.90         72.80         5         1 oct 1 oct 1 oct AFTER	REORDER 6 2 11 13	

# BUDGET ITEM JUSTIFICATION SHEET

1997
FEBRUARY

DATE

											!			1
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	LIVITY					P-1 ITEM NOMENCLATURE	1 NOMEN	ICLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION,	ARMY/A	CTIVITY 1.	AMMUN	NOILI		CTG 5.56MM BLANK M200	MM BLAI	VK M200				(E01	(E01100)
	FY	96	FY	97	FY	86	FY	66	FY	00	FY	0.1	01 02 FY	0.3
QUANTITY		-0-	-0-		18882		83163		84400		84855		85739/85689	689
(Thousands)														
COST (In Millions)	10	\$ -0-	-0- \$		\$ 4.0		\$ 18.1		\$ 18.8		\$ 19.3		\$ 19.9/20.4	0.4

#### DESCRIPTION:

is sealed and identified with lacquer. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price. and by the identification knurl about one-half inch from the base of the cartridge. The mouth of the cartridge The cartridge can be identified by the rose petal (rosette crimp) closure on the mouth Rifle and Squad Automatic Weapon. A blank-firing attachment on the weapon is required for firing automatic or This cartridge is used for simulated firing in training maneuvers and for saluting purposes in the M16 Series semi-automatic weapons.

### JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement reports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1977

RCS: DD-COMP(AR)-1092

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 5.56MM BLANK M200

PCN:P02QM1DOC4Z DATE: FEBRUARY 1997 NSN = 1305-00-182-3217 (E01100)

	FY 96	(QTY		) FY 9	97 (QTY		_	FY 98 (QTY	1888	18882042)	FY 99 (QTY		83162593)
ELEMENT OF COST QM: EACH	УŢQ		UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	Ϋ́ΓΥΟ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M2A1 3.PROPELLANT WC814 (LB)								18882042 16806 18883	0.17 5.74 6.55	3251 96 124	83162593 74015 83163	0.18 5.86 6.69	14620 434
SUBTOTAL				<u> </u>   						3471			15610
PRODUCTION SUPPORT							<u>'</u>						
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPORT	IEERING SE ING KTATION C SUPPORT			·						355 9 40 25 123			1595 39 180 112 553
SUBTOTAL				<u> </u> 			<u>;</u>			552			2479
**************************************	******	**	* * * * * * * * * * * * * * * * * * * *	*******	*****	*****	****	0.21 4023	*******	4023!	***************************************	*******	18080

P-1 ITEM NO. 1 PAGE NO. 12 of 48

EXHIBIT P-5

PCN PO2QM1D0D4Z

			PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	ky 1997	1 k
APPROPRIATIO	APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-0	1305-00-182-3217	17	
PROCUREMENT	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNIT	rion	CTG 5.	5.56MM BLANK M200	M200		! ! ! ! !	(E01100)	00)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, A	1. LOAD, ASSEMBLE, AND PACK (LAP)	                     	; ; ; ; ; ; ; ;	 	; ; ; ; ; ; ;	t t t t t t t t	i 	 		
FY 19:	94 OLIN CORP	SS/CPAF	IOC	NOV 93	OCT 94	90105600	.16			
FY 19.	1NDEFENDENCE, MO 98 OLIN CORP	SS/CPAF	IOC	VOV 97	OCT 98	18882042	0.17	YES	NO	
FY 19	FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	83162593	0.18			
2. BOX METAL M2A1	AL M2A1									
FY 19	94 BROCKWAY STANDARD	C/FP	IOC	JAN 94	JUL 94	81096	5.68			
FY 19 FY 19	HOMEKVILLE, GA FY 1998 TBS FY 1999 TBS	C/FP C/FP	IOC	JAN 98 JAN 99	JUL 98 JUL 99	16806 74015	5.74	YES	NO	
REMARKS:			; ; ; ; ; ; ; ;	t t t t				 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; !

TBS - To Be Selected

PAGE NO. 13 of 48 P-1 ITEM NO.

EXHIBIT P-5A

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	RY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	ATURE	NSN = 1305-00-182-3217	00-182-33	217	1
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IVITY 1. AMMUNIT	rion	CTG 5.	CTG 5.56MM BLANK M200	M200			(E01100)	(00
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
3. PROPELLANT WC814 (LB) **			i             	.			1	: : : : : : : : :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1994 OLIN	SS/FP	IOC	AUG 94	SEP 94	91909	5.98			
FY 1998 OLIN	SS/FP	IOC	AUG 98	SEP 98	18883	6.55	YES	ON	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	83163	69.9			
REMARKS:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; 1 2 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			; ; ; ;	1 1	; ; ;

\*\* PACING COMPONENT

P-1 ITEM NO. 1 PAGE NO. 14 of 48

EXHIBIT P-5A

MHOL.	E01100	7]	<b>⋖</b> Ë			00.00	0.0	00.0	00.00	83.0		0.00	0.00	0.00	0.00	0.95		0.00	00.0	00.0	0.00	26.0		00.0	0.00	0.00	0.00	2.50	_	0.0	0.00	0.00	0.00	0.00	0 112					5
ROL SYMBOL	E0			243	$\overline{}$	-	-	<u> </u>	92		_			$\dashv$	-	-			_				H		Н	-		$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	$\dashv$	+	- 8					OWOT TITM MI
1092				_	100				1.02							$\dashv$			_								7	$\dashv$	+	1	1	7	7	+	- 1					T.M.
(AR)					200				02.01																										.51.02.01.02.02.02.02.01					
REQUIREMENTS DD-COMP (AR)			6		<u> </u>		$\perp$	_	8						_		_									4	_	_	4	4	1	4	$\perp$	_	0.		TOTAL			OITA NITT IIV
PEQU DD-C					MAR	╀	$\perp$	-	8		L	Н			4	$\dashv$	$\dashv$			_		_	-		_	$\dashv$	4	$\dashv$	-	+	4		$\downarrow$	+	8	(A)	Ē	12	12	A ALTO
						╁	╁	╁	8	-	-	$\ \cdot\ $			$\dashv$	-	$\dashv$		_					-		-	-	$\dashv$	+	+	+	+	+	+	8	=K/L	PLT	П	_	
		YEAR	66	- CALEND	JAN	1	+	$\vdash$	8		_		_		$\dashv$	$\dashv$	$\dashv$	_			H			_	$\exists$	_	+	$\dashv$	+	$\dagger$	+	+	$\dagger$	+	- 6	U/M	ALT			
1997					DEC				8	1																									1.0	Į.	ΑI	11	11	
1		FISCAL			<u>§</u>	$\downarrow$	$\perp$	L	010	:1	_	Ц			50.50	4	_		Ц			_				_	_	$\perp$	$\downarrow$	4	$\downarrow$		$\perp$		511.5	PONE	UALT	9	٠.	
FEBRUARY		Ex.	$\dashv$		SEP	+	+	$\vdash$	۲	┡	$\vdash$	Н	_	$\dashv$	-2	$\dashv$	$\dashv$				$\dashv$	_		-		$\dashv$	+	$\dashv$	+	-	+	+	+	$\perp$	1=	COM	_			
田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田				_	AUG	$\dagger$	+	$\vdash$	$\vdash$	$\vdash$	$\vdash$	Н	Н	Н	$\dashv$	$\dashv$	$\dashv$				$\dashv$	$\dashv$	H	_	$\dashv$	$\dashv$	$\dashv$	+	+	+	+	+	+	+	+	PEACING COMPONENT (U/M=K/LB)		INITIAL	RDEF	
DATE	1				JUL		İ	İ	Ī		I															_		1	T	_	†	+	$\dagger$	+	$\dagger \dagger$	FERS		INI	REO	
	H		5		<u>z</u>							Ц															$\rfloor$		1		Ī		1		$\square$	Г		ğ		T
	ITEM NOMENCLATURE 5.56MM BLANK M200			_	ž	$\vdash$	$\perp$	$\vdash$	-	L	$\vdash$		Щ		$\dashv$	4	-			Ц	4		$\square$	_		4	$\dashv$	$\downarrow$	4	4	4	4	$\downarrow$		$\downarrow \downarrow$		Ä		13	]]
	CLA K	١,	88		AR	╁	╀	╁	┢	-	-	H		$\dashv$	$\dashv$	$\dashv$	-				$\dashv$		-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	╁	+	+	+	+	LEAD TIME	TOTAL	AFTER		' '
	MEN	·	98	A P	FEB MAR	t	t							$\exists$		7	1		_		$\dashv$			+		+	+	$\dagger$	+	$\dagger$	$\dagger$	+	+	+	H	101		Ţ		
	MM NO	YEA			N.									.30													Ī	寸		1	1	1			.30			<b>~</b> 1	11	11
21)	ITE 5.5	AL		_	200	$\vdash$	╀	$\vdash$	$\vdash$		L	Н		30.30	4	4	_						Ц	_		_	$\dashv$	4	4	1	1	$\downarrow$	1		0.30	ENT	TER	į,	~	7
<u>Б</u> -	P-1 ITEM NOMENCLATUI	SI.		_	OCT NOV	╁	$\vdash$	$\vdash$	┢		-	Н		30.3	$\dashv$	$\dashv$	$\dashv$		_	_		$\dashv$	H	$\dashv$	$\dashv$	+	+	+	+	+	+	+	+	+	.0.30.30.30	JREM	LEAD	4		
ΙŢ	F		┪		das		T	T	T			Н		-	7	$\exists$	$\exists$	_	0.1			$\dashv$			$\dashv$	1	+	$\dashv$	$\dagger$		╗	+	-	+	0	ROCT	PRIOR AFTER	1 	9	9
(EXHIBIT					YOU														加. 如										1	- 1	3				92.02	۵۰			IAL	DER
XH					2	┡	╀	-	_		L				4	_	_		. oh. oh			_	Ц			4	4	$\dashv$	4	4	캀	4	4	+	9 6:				INITIAL	REORDER
			۲		NO.	$\vdash$	╁	├	H	Н		Н		$\dashv$	┨	$\dashv$	-		.00	Н		$\dashv$	Н	-	-	$\dashv$	$\dashv$	+	$\dashv$	+	+	+	+	+	8	L	<u></u>		Н	æ
JLE				_	_														9							1	+	$\dashv$	+	$\dagger$	†	$\dagger$	†	+	<u>10</u>	2	DPA		$\top$	
SCHEDUL	N.	,	7		reb max												_		10.10											$\rfloor$	$\prod$			I	9	MONTHS	MINIMUM AFTER D-DAY SUST. 1-8-5 MAXIMUM AFTER D-DAY	2		
CH	Y 1. AMMUNITION	AR ,	16		NAC	┞	╀	L	_	Н	_	Н	4	$\dashv$	4	$\dashv$	_		. oh. oh				Н			$\dashv$	_	4	4	4	4	4	4	$\downarrow$	.00.00.	ES	MIM	68.30	1:00	
İ	NAME OF THE PERSON OF THE PERS	YE	-		720	┝	$\vdash$	┝	H	Н	$\vdash$	Н	$\dashv$		$\dashv$	$\dashv$	$\dashv$		. of		-					-	-	+	+	+	+	+	+	+	- 형	RA	MAX	- 1		
OI	A	CAL					┢	$\vdash$				Н			7	$\forall$	┪		0.							7	1	$\top$	†	$\dagger$	+	†	$\dagger$	$\dagger$	- - -	ION	8-5	21.20	0.83	
JCT	Ĭ.	FIE	2	7	<b>1</b> 30														<b>b</b> .0b																3.0	OCT	ξŤ			+
PRODUCTION	IVI	BAL	DUE NS OF	1 ocT	96	00.0	0.00 0.00	0.00 0.00	19.0	83.0		0.00	0.00 0.00	1.20	1.00	0.95		33.0 0.00	17.0	0.00 0.00	0.00 0.00	26.0		0.00	0.00 0.00	0.00 0.00	0.00 0.00	2.50	-	0.0	2.90	0.00 0.00	0.00	0.00	1543.03.01	ROD	INIMU UST	0.00	0.70	
PR	(Try	CEP.		1 ocr	П	0	8	8	0.00	0.00		0.42	00	0.00	0.00	0.00		3.0	00.0	00	00	00.0		0.00	00	8	8	0.00		0.00	00.0	힑	힁	0.0	123		Σď			
	ACTIVITY , ARMY/ACTIVITY	Ŭ <b>K</b>		T	96	ı	9	0	0		-	9	9	0	မ		-	33	0	0	0			0	0	9	$\neg$	50 0.	+	9	ᅨ	4	_		+-	5	Ame	8		
	l⋖ ⊣		QTY	스		⊢	$oxed{\bot}$	L	0	83.0	_	Ц	_			0.95	4				0	26.0	Щ		Ц	4	- 1	2.5	$\downarrow$	4	4	4		0.0	Ā		z ÇZ	R	S,FL	
	GET		YAM.	7.7	;   8			Ļ	19.0	Ц		Ц			9		Ц		_		D.00	Ц	Ш		Ц		0.00	_		_	$\perp$		8	$\perp$	TOTAL MONTHLY PRODUCTION	1	낇	AAP	MARKS, FL	
	BUD		PROGRAM	>	16			0.00						1.20						0.00						0.00						9			UCTIO	E	100	III	ST. N	
	ON/		ධ	7.7		0.06	00.0					0.42	0.00					33.0	17.0					0.00	0.00		$\Box$		Ī	0.0	2.9	T	T		PROD		& LOCATION	LAKE CITY AAP IND MO	INS	
	[AT] MEN]	S	ЫO	<u> </u>	1				Γ			SOF	SOF	SOF	SOF	SOF			1	MC	MC	υ Ω		AF (		G.	Œ,	4	T	FMS	E.S.	E.W.S	EMS	FMS			ž.	LA	OFIN	_
	APPROPRIATION/BUDGET PROCUREMENT AMMUNITION		۵≥		$\pm$	V Σ		Σ		MA		M	MS	M	S W	S		M MC	M	W	MM	M MC	H	MA	MAF	MAF	M AF	M AF		Σ				Σ		,	, ]			
	PPR( PROC		FAC			_			-	1		1		1				1	,,			_						H			ᅰ					Ē	NON.	-1	7	

, c	E 4 4 4 4	A PAPAGED I A MITONI ZELINCEM A ACT	PRC	PRODUCTION	NOI		SCHEDUL	JLE	1	(EXHIBIT	BIT	P.	21)					DA	DATE FE	FEBRUARY	1 1	1997			REQUI	REMEN	rrs co	RECUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	SYMBE	i
PROC	UREMEN	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	WY/ACTI	VITY 1	Y 1. AMMUNITION	UNIT	S					C.T. 5	CTG 5.56MM BLANK M200	ITEM NOMENCLATURE 5.56MM BLANK M200	JENC.	LATU M200	RE												E01100	00
FAC	ខា	PROGRAM QTY	ACCEP. PRIOR		CAL	YEAR	97				,	FISC	AL )	YEAR	86					<u> </u>	FISCAL		YEAR 99							2٢
			1 oc 1	As or 96		CALENDAR YEAR	IR YEAR		97					CALENDA	CALENDAR YEAR		86			$\left\{ \right.$			CALEND	CALENDAR YEAR		66				든다
	>	FY FY FY FY OC 00	90	OCT NOV	40V DEC		JAN FEB MAR	APR	MAY JUN	JUL AUG	JG SEP	OCT NOV	DEC	JAN	JAN FEB HAR APR HAY JUN	APR.	5 2	JOL	AUG	SEP OCT	NON	DEC	JAN	JAN FEB MAR	APR MAY	_	JUL JUL	L Atie;	das	ید
		27 20	20		-		$\perp$		igg	$\perp$	$\bot$	$\pm$	1	$\pm$	+		+	I	$\perp$	+	4-		-	+	$\perp$		+	_		
1	ндо м	0.44	0.44 0	00.0	H		$\sqcup$		$\square$		$\square$						$\vdash$		T	$\vdash$			-	-			-			0.00
1	M OTH	0.34	0.00	0.34	$\dashv$		$\dashv$		$\dashv$	.34				H	$\sqcup$		Н				Ц		Н	$\vdash$					0	0.00
	M OTH	00.00	0.00 0.00	8	+		-	$\pm$	$\dashv$	$\exists$	$\dashv$	$\frac{1}{2}$	1				$\dashv$			$\dashv$			$\dashv$	$\dashv$			-		0	0.00
	M OTH	0.00	0.00 0.00	0 0	+	†	+	$\pm$	$\bot$	+	$\bot$	$\pm$	1	+	$\perp$	$\pm$	+		t	-	$\bot$		+	+	1		+	1	0 0	0.00
				200			$\prod$	$\perp$	$\perp$			$oldsymbol{\perp}$		1	-		+		$\dagger$	+	1		+	╀		1	+		2	00.00
					H		$oxed{\Box}$				П		П	H	H		H			H	Ш					П				
			124 0			+		+	$\exists$	+	$\dashv$	$\dashv$	$\dashv$		-					H	$\Box$								0	0.00
		20.7	0.00 20.2	9	3.0.0	하	<del> </del>	하	8	줘	0.20	1	7		$\perp$		+		1	+	_		+	$\dashv$	1		$\dashv$		9	0.00
	ALL	1.20	0.00	1.20	+	$\perp$	$\perp$	$\pm$	$\bot$	+	$\prod$	.30	30.30	e.	$\perp$		+		Ť	$\dashv$		- 1		$\dashv$		1	$\dashv$		0	0.00
	ALL	0.02	0.00	0.0	+	1	$\bot$	$\frac{1}{2}$	4	+	ightharpoonup	+	1	+	$\perp$		$\dashv$	1		-1	51.5	<del></del>	05 10	8	8	.02.02.01		. 02 . 02	위	0.00
	ALL	1112	99.	112	+	$\pm$	-	$\pm$	$ \downarrow $	+	Ţ	+	1	+	$\int$	1	+	$\perp$	+	+	1		+	+	1	$\dagger$	+		1	112
		PACTNG COMPONENT:	d .TNEWC	PROPELLANT WCR14	N W	814	$\perp$	$\pm$	$oxed{F}$	$\pm$	I	+	1	+	_	$\bot$	-	$\downarrow$	1	+	$\perp$		$\dagger$	-		$\dagger$	+			
					H				П		П	H		-	H		-	L		$\vdash$				-		+	+			
2	K TOT	124	124 0.00		$\dashv$	$\dashv$						H		Н	Ц		H			Н	Ц			_		-				00.0
2		0. 0. 0.	2.00 1		.02.01.02	라	.02.02.0	OI.	8	링	=	$\dashv$	1	+	$\dashv$		-			$\dashv$			$\dashv$						0	0.00
2		1.00	0.00	1:00	+	$\pm$	$\bot$	$\dagger$	7	$\dagger$	3	+	$\downarrow$	+	$\downarrow$	$\frac{1}{2}$	+		$\top$	4			+	<u> </u>		$\forall$	$\dashv$		9	0.00
7		50.0	8 8	20.0	+	$\pm$	$\bot$	+	Ŧ	+	1	+	1	+	$oxed{I}$		+	1	2	20.0	0.20	<del>2</del>	라	.02.02	2 0.	하	링	91.0		0.00
7		113	3	F177	+	$\perp$	Ţ	$\pm$	1	+	-	+	1	+	$\bot$	$\perp$	+		+	-	_		+	-		$\dagger$	+		10	103
					$\perp$						L	$\vdash$		+		$\perp$	_		$\dagger$	+	L		+	+		$\dagger$	+			
					H				П	H		H		$\mid \cdot \mid$	$\prod$	H	H		H				H			$  \cdot  $	$\vdash$			
	$\downarrow$		1	+	+	$\perp$		_	1	+	$\downarrow$	+	#	+	Ţ	+	+		+	4	1	1	$\dashv$	-		$\dashv$	$\dashv$			
			1		+	$\pm$	-	+	-	+		+	1	+	1	$\perp$	+		$\dagger$	+	Ţ		+	+	$\perp$	+	+			
					$\prod$	$\coprod$	П	$\left  \cdot \right $	П	H	П	$\ \cdot\ $		H	П	H	$\sqcup$		H				$\vdash$			$\dagger$	╀	1		
			1		$\dashv$			+	1	+	#	+	$\downarrow$	+	1	+	_		$\dashv$	+			$\dashv$	4						
		TOTAL MONTHLY		60	-   -	5	5	5	5	-   -	ج ج	00 00 00 00	5	500	Ţ	+	$\downarrow$		+	1	- 1		- 5	1			+			
		PRODUCTION	1571	T 24 D - 0D	7	- - - -	#	1 0 0	7	. 77	7	2 100	10.00	000	7	1	4		$\left  \cdot \right $	4	하		<u> </u>	. UZ . UL . UZ . UZ . UZ . OZ	20.02	20.5	팅	. 02 . 02	2.0	112
FAC		TANIJEACTIJRER NA		PRODUCTION RATES	ON R	ATES	NOVINS TO	0 X			PROC	UREM	ENT	LEAD	TIME	ΛE		FE	PEACENS	COME	ONE	) E	.u/M=	COMPONENT (U/M=K/LB)	~					
S S	+	& LOCATION	- 1	NIMOM 1-	8-5 K	AXIMIM	AFTER	D-DAY			PRIST.	PRIOR AFTER	TER	0000		TOTAL	£			٠	UALT	AL	ALT F	PLT	TOTAL	١٢				
			+	0.00 21	0.27	68.30	م د				4	 	   		+	12	3	INI	INITIAL		ب م	11			12					
7	3	OLIN ST. MAKKS, FL.	+	1	3	T . C.		Τ	NI	INITIAL		$\dashv$	1	1	$\dashv$	7			がした		_	11	<b>⊣</b>		12					
	$\left\{ \cdot \right\}$			H	H				RE	REORDER	9	2		11	-	13		j						O	UANT	LITY	Z	QUANTITY IN MILLIONS	TONG	
									P-1	P-1 LINE NO.	0		PAG	PAGE NO.	16		OF 48 PAGES	PAGE	SS		1									7

NUTION   P-1 ITEM NOMENCLATURE   FISCAL YEAR   O1					RODI	PRODUCTION		SCHEDUL	ULE	  XH)	(EXHIBIT		P-21)					DATE	E 55 P	- A	1 9 9			REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	EMENTS	1092	POL SY	MROL	
1	APPRO	PRIAT		CTIVI	Y					-		1		NON W	MENCI	ATUF	Ξ												T .
1	PROC	UREMEN	T AMMUNITION,		TIVIT	Y 1.	AMMUNI	TION					5.5	6MM B	LANK	M200				D T G	140	VEAR					띪	<u> </u>	
No.			PROGRAM C			1255		8				<del>1</del>	1878 1878	IEAR	01					0 1 4		02						<	•
Y F F F F F F F F F F F F F F F F F F				1		66	CALE	IDAR YEAR		00				CALENE	AR YEAR		2					CALEND	AR YEAR		7			[11	
M		>	FY FY		$\neg$			FEB 19.R		NOC	AUG	SEP OCT		_		APA R	<u>3</u> 5	705		oct.		_	EB MAR			JOL			α
M	-	4	3/ 38	1	7 0	$oldsymbol{\Gamma}$	+	$\frac{1}{1}$	$\pm$	‡	#	$\prod$	$\pm$	1			+		+		+	$^{\dagger}$	+	1	+	1	+	0.0	2
M	1	( A	00.00	0.0	100		-	$oxed{\perp}$	L		1	F	$oxed{\pm}$	1	$\vdash$				$\dotplus$	İ	+	<del> </del>	-		-			0.0	9
MA		Y.	0.00	0.0	0.00											_			$\vdash$		$\vdash$						H	0.0	00
No. 20   1.20	1		19.0		0.00		$oxed{oxed}$	ig							$\square$		Ц				H		$\dashv$		-		$\dashv$	0.	00
No. 20   1.20	1				83.0	6.07.0	7.07.0	7.06.(	7.07.	06.07	08.08	0.	$\frac{1}{2}$						-		+	_	+		+		-	<u> </u>	္ပါ
March   1,000   1,00				-		$\int$	$\frac{1}{1}$	$\pm$	$\pm$	#	1	7	$\pm$		+	$\dagger$		+	-		+		+	1	-	1	+	c	12
No.   1.00   1	4	200	0.42	* 0		$\frac{1}{1}$		1	$\bot$	1	1	I	$\perp$	1	-	$\perp$	_		-		+	<u> </u>	╂-		-		+	0.0	2 2
No.   No.	,	SOF	1	1.2(	9.0														L		H		Н					0.0	2
M SOF   13.0   10.00				1.0(	0.00					H	H	П							Н		H						$\dashv$	0.0	2
NEC   23.0   23.0   20.00	1				0.95		$oxed{oxed}$					$\Box$									$\dashv$		_		-	$\downarrow$	$\dashv$		9
M NC   33.0   33.0   0.00     M NC   17.0   0.00     M NC   17.0   0.00     M NC   26.0   0.00   0.00     M NC   26.0   0.00     M NC   26.0				_		-				4	-	$\exists$			1			$\dashv$		+	_	-		_		+	$\dashv$	Т	
M NC   17.0	1	WC.	33.0	33.(	9:0		-	$\dashv$		$\downarrow$	$\dashv$	4	$\dashv$	$\downarrow$	$\dashv$		4	1	$\dashv$		+	1	+	1	4	1	$\dashv$	0.0	00
M NC	1		17.0	17.(	9.0	$\frac{1}{2}$	-		1	+	#	1	$\frac{1}{2}$	1	-	+	4		$\downarrow$		+	1	+		+		+		el :
M NC		υ E		0.0	9	$\frac{1}{1}$		_	1	$\downarrow$	1	$\blacksquare$	$\pm$	$\downarrow$	+	+	1	1	+		+	1	+	1	+	1	+	0 0	00 5
M NC		M MC	0.00		9	$\frac{1}{1}$		_	-4		+	1	$\pm$	1	-	+	1	$\downarrow$	+	1	+	1	+	1	+		+		9 9
MAF   0.00   0	-1	WC W			726.0	0.20.2	0.20	Z - 63 ·	얼느		3	1	$\pm$	#	1	$\dagger$		$\dagger$	+		+		+	$\downarrow$	+	1	+	-	3
M AF   D.00   0.00		:  -  :		6		f I	<del> </del>	$\pm$	$\downarrow$	$\downarrow$	#	F	$\frac{1}{2}$	1	-	+	-	1	$\downarrow$		+	ļ	<u> </u>		+		+	٥	75
Name		M AF	0.00	0 0		f I	+	$\pm$	$\pm$	1	‡	F	$\pm$	$\downarrow$	I	+	1		╀		+		╀	1	$\perp$		+	2 6	3 5
MAP   10   10   10   10   10   10   10   1		M AF	00.0	5 6				1	$\pm$	‡	#	Ŧ	$\perp$	1	-	+	$\downarrow$	$\dagger$	╀		+		+	$\perp$	-		+		3 5
M AF   2.50   0.00		M AF	_1 <	0 0			+								-		L		$\vdash$		-		-		1	-	-		2 2
FMS   D.00	-	MAF			2.50	ᄛ						П											Н					0.0	00
M FMS					Ц		H	$oxed{\mid}$					$\dashv$		4	-			_		$\dashv$								
M FMS   0.00		M FMS		0.0	0.00					1	1	1	+	$\downarrow$	1	$\dashv$	$\perp$	1	$\dashv$		$\dashv$		_		_		-	0.0	8
FMS   0.00   0	1	M FMS	-	2.9(	9.0		$\frac{1}{2}$	_	$\frac{1}{1}$	+	7	1	+	1	4	+		$\dagger$	$\dashv$		+	1	+		$\dashv$		-	9	8
FMS   D.00   D		M FMS	0.00	0.0	9.0	-	$\frac{1}{1}$	$\frac{1}{2}$	1	$\downarrow$	#	+	+	1	1	+	$\perp$	+	4	1	+	1	+	1	_	1	$\dashv$	9	8
PRODUCTION RATES   1.00   0.		M FMS			9.0	$\frac{1}{1}$	$\frac{1}{1}$	_	$\frac{1}{2}$	$\downarrow$	#	1	+	$\downarrow$	+	+		1	+	1	+	1	+		$\perp$	1	+	9	8
PROCURER NAME   165   112   10   109.59.09.09.09.09.09.0   10   10   10   10   10   10   10					<u> </u>	$\int$	$\int$	+	$\pm$	+	#	-	+		1	+	1	$\dagger$	-		+	1	+	$\pm$	+	1	+	9	0
MANUFACTURER NAME			TOTAL MONTHLY	135	i_	10	100	e	9	- e	-	15	+	1	-	-	1	$\dagger$	-	$\perp$	+		+	1	-		+	+	T
MANUFACTURER NAME   PRODUCTION RATES   REACH MAN   PROCUREMENT   LEAD TIME   PROCUREMENT   LEAD TIME   PRODUCTION   Lake city and indicated by a construct of the color of the city and indicated by a color of the city and indicated			PRODUCTION	10	1	7 67	0.00.0	100.0		3	1	2				-		$\left\{ \left[ \right] \right\}$	$\  \cdot \ $	]	$\ $		$\left  \cdot \right $		$\  \ $		╢	-	Τ,
Color   Colo	FA		IANTIFACTURER	NAME	PROL	UCTIO	RATE	S MONTE	S TO		H	ROCUR	EMENT	LEA	D TI	鱼	П		S\$5 C	OMPO	NENT	M/U)	=K/LE	<u>e</u>					
LAKE CITY AAP IND MO. 0.00 21.20 68.30 5	Se le	-	& LOCATION		MINIM	2-8-5	MAXIM	N AFTE	D-DAY		<u>-1-4-</u>	RIOR	AFTER	000	- 4	Ą-				Š,		ALT		TOTAL					
OLIN ST. MARKS, FL. 0.700 U.83 1.00 U INITIAL C 11 13 REORDER 6 2 11 13 QUANTITY	-	13	AKE CITY AAP	IND MO.		0 21.2		- 1	T		1	3	,	-		2  ∙	; 	TNI	IAL	۷ م				12					
6 2 11 13 QUANTITY	7	Ö 	IN ST. MARKS	FL.	3	- 1		_1_	T	INI	TIAL	,	٠,	;		7		200	4	D				71					
10		+								REO	RDER	9	7		$\dashv$	13							O.	UANT		IN MI		S.N.C	
												,			ļ														_

E PROGRAM QTY  S PROGRAM QTY  V FY FY FY FY  96F 97 98 99  TH 0.34  TH 0.00	165   112   10 109.59.09.09.09.09.09.09.09.09.00	TOTAL MONTHLY 165 112 10 109.59.09.09.09.09.0 10 10 10	113 10.0 103 10 10 10 109.09.09.09.09.00.00.0	20.0 20.0 0.00	20.0 20.0 0.00	124	PACING COMPONENT: PROPELLANT WCB14	112 0.00 112 10 109.59.09.09.09.09.09.0 10 10 10 10 10 10 10 10 10 10 10 10 10	20.0 20.0 0.00	1.20 1.20 0.00	20.2	124 124 0.00	D.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.44 0.00	FY FY FY FY FY OF OR OR OR OR OR OR OF INCLUDING THE WAY JUN 100 DEC AN FEB WAR APP WAY JUN JUN 100 DEC AN FEB WAR APP WAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	PROGRAM QTY PRIOR DUE 00 CALENDAR YEAR 00	ONITION CTG 5.56MM BLANK M200	
OPRIATION/BUDC CUREMENT AMMUNIT  S PROGR  V FY FY  V FY FY  OTH 0.44  M OTH 0.44  M OTH 0.44  M OTH 0.14  ALL 124  ALL 20.2  ALL 1.20  ALL ALL  ALL 1.20  K TOT 1.24  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0  K TOT 20.0	FAC MANUFACTU NO. & LOCAT 1 LAKE CITY A 2 OLIN ST. M	TOTAL MON		TOT	TOT TOT	Ĭ	PACT	ALL			1		M OTH	OTH	OTH 0.44	FY	ល២៥	CUREMENT AMOUNT	

	SHEET
}	JUSTIFICATION
	ITEM
	BUDGET

	1997
7,531.77	FEBRUARY

						ľ			FEBRUARI 1997	1331
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	IŢŸ					P-1 ITEM NOMENCLATURE	ICLATURE		
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, ARM	MY/AC	FIVITY 1.	AMMUN	ILTION		CTG 5.56MM BIA	CTG 5.56MM BLANK M200 LINKED F/SAM	/ C D W	(E01101)
		-				T		T CHINET COST: VI	, DEC. /	(101101)
	FY 9	96	FY	97	FY	98	FY 99	FY	FY 0.1	01 02 FY 03
QUANTITY	18743		2525		0000			1		
(Thousands)		7	0007		382/0		27714	28122	28286	28563728559
COST										
(In Millions)	\$ 7.1	1 \$	1.0		\$ 13.6	<u> </u>	\$ 10.0	\$ 10.4	\$ 10.7	\$ 11.0/11.3

#### DESCRIPTION:

attaches directly to the M249 Squad Automatic Weapon (SAW). Four plastic containers are packed in a PA108 container. The 5.56mm blank M200 round is a standard blank cartridge currently used during training to simulate live-ammunition noises and flash. This round is linked in 200 round belts and loaded into a plastic ammunition container that The M249 SAW is a lightweight, belt-fed, one-man operable machine gun. This item is Code A, approved for service This item will be procured through the CAWCF at a fixed standard price.

#### JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Page of Pages **Exhibit P-40** 

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1305-01:258-8694 (E01101)

PCN:P02QM1DCC42

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	T ACTIVITY ION, ARMY/ACTI	VITY 1.	AMMUNIT	ION	P-1 I CTG 5	TEM NOM!	ITEM NOMENCLATURE: 5.56MM BLANK M200 LINKED F/SAW	LINKED F/S	AW.	DATE: NSN = 1	FEBRUARY 1997 1305-01 -258 -8694 (E01101)	Y 1997 58-8694 101)
	FY 96 (QTY	1874	18741997) F	FY 97 (QTY	253	2535000) F	FY 98 (QTY		38270093)	FY 99 (QTY		27714208)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	ŶŢŎ	UNIT	TOTAL	ΥΤΩ	UNIT	TOTAL	ΥΤΏ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP)	18741997	0.27	5148	2535000	0.30	760	38270093	0.28	10792	27714208	0.29	7979
Z.FROFELLANI WC814 (LB) 3.LINK M27	18742 19491677	6.50	122	2535 2598375	5.83	39	38271 39035495	6.55	251 652	27715 28268493	6.69	185 483
SUBTOTAL			5599			814			11695			8647
PRODUCTION SUPPORT						. <del>'</del>						
2. QUALITY ASSURANCE	<u>ENGI</u> NĖERING URANCE		174			37:			1195			884 22
3.ACCEFTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPO 6.CAWCF GAIN/LOSS SURCHA	NG TATION SUPPORT SURCHARGE		2331 1024			ωω ΜΗΟ 			134 84 415			99 62 307
SUBTOTAL			1524			185			1857			1374
TX************************************	*****	0.38	******* 7123!	**************************************	0.39	: :666 :******	****	********* 0.35	13552	0.36 10021	4******	10021
								-				

20 of 48 PAGE NO. P-1 ITEM NO.

EXHIBIT P-5

PCN PO2QM1DOD4Z

	   1   2   3   4   6   6   7   1   7   7	PROCUREMENT HISTORY & PLANNING	r HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	RY 1997	:           
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-	1305-01-258-8694	694	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CTG 5.	56MM BLANK	LINKED	F/SAW	1 1 1 1 1	(E01101)	01)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)				 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	! ! ! ! !
FY 1996 OLIN CORP	SS/CPAF	IOC	FEB 96	OCT 96	18741997	0.27			
FY 1997 OLIN CORP INDEPENDENCE MO	SS/CPAF	IOC	FEB 97	FEB 98	2535000	0.30	YES	NO	
FY 1998 OLIN CORP TABLEBENCE, MO	SS/CPAF	IOC	VOV 97	OCT 98	38270093	0.28	YES	NO	
FY 1999 OLIND CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	27714208	0.29			
2. PROPELLANT WC814 (LB) **									
FY 1996 OLIN MARKS ET	SS/FP	IOC	APR 96	SEP 96	18742	6.50			
FY 1997 OLIN MARKS FI	SS/FP	IOC	AUG 97	SEP 97	2535	5.83	YES	NO	
FY 1998 OLIN MADES FI	SS/FP	IOC	AUG 98	SEP 98	38271	6.55	YES	NO	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	27715	69.9			
REMARKS:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			; ; ; ; ;	! ! ! ! !	i

\*\* PACING COMPONENT

P-1 ITEM NO. 1 PAGE NO. 21 of 48

2
4
Ō
Q
$\Box$
ᅼ
Σ.
Ċ
$\sim$
δ
,,,,
-
5
~

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY 6	PLANNING		DATE:	FEBRUARY 1997	kY 1997	; ; ; ;
APPROPRIATION/BUDGET ACTIVITY	ACTIVITY			P-1 ITE	P-1 ITEM NOMENCLATURE	IURE	NSN = 1305 - 01 - 258 - 8694	1-258-86	594	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITI	I, ARMY/ACTIVITY 1	. AMMUNITIC	NO	CTG 5.	6MM BLANK N	5.56MM BLANK M200 LINKED F/SAW	/SAW	; ; ; ; ;	(E01101)	1)
LINE ITEM/ FISCAL YEAR CONTE	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
3. LINK M27						 	1 1 1 1 1 1 1 1 1 1 1			
FY 1996 VALENTEC	] ] 	C/FP	IOC	APR 96	AUG 96	19491677	0.02			
FY 1997 TBS . FY 1998 TBS FY 1999 TBS		C/FP C/FP C/FP	100C 100C	MAR 97 JAN 98 JAN 99	JUL 97 JUL 98 JUL 99	2598375 39035495 28268493	0.02	YES	00 NO	
REMARKS:								f 1 1 2 4 4 8		:

TBS - To Be Selected

P-1 ITEM NO. 1 PAGE NO. 22 of 48

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E01101		3< <sup>1</sup>	- F	SEP		0,00	00.0	03 00 00	0.80		0.00	00.00	0.00	00.00	00.00		00.0	00.00	0.00	00.00	13.0			0.00	00.00	00.00	3.00.00	41.0			0	000	00.0	3.041.0					O. C.	SMOTI
CÖNTROL 1092					JUL, AUG	+		_	03 04											-								3.04.0							3.04.0					OUANTHU NT VITTURE	יוחדוו ג
IREMENTS OMP (AR)				66	MAY JUN				04 03 (	-																		04.03.0		-	+	+	-		4.03.03		TOTAL	12	77	יד יידידי	
REQU DD-C				YEAR	MAR AFR	1	+	1	<del> </del> =	-																-	$\dashv$	8	1						<u>. 03 . 03 . 03 . 03 . 03 . 04 . 03</u>	(LB)		7		OUAN	
		YEAR	66	CALENDAR YEAR	JAN FEB MAR	-			2 03	3		_															$\dashv$	3.03.03	4	1	+	ŀ	-		03.0	(U/M=K/LB)	ALT I	11 1			
Y 1997		FISCAL			NOV DEC	+			3 03	3							-											3.03.03	7	+	1	l		$\prod$	03.0		UALT P	7			
FEBRUARY	AW.	-			SEP OCT				- E																	1	1	3 9	1		-				9 8	COMPONENT		9 7			
DATE	ED F/SAW				שור אחב				$\frac{1}{1}$								-								-	1	1	1	1	1						PERPENS		INITIAL	REORDER		PACEC
	URE			86	MAY JUN											-									-	1	+	7	1	1	-				]			ti 8			OF 48
	NCLAT		86	YEAR	MAR APR	1		ء ا	2											_							0.2								5	TIME	TOTAL	AFTER	£	13	23
	ITEM NOMENCLATURE 5.56MM BLANK M200 L	YEAR		CALENDAR YEAR	JAN FEB MAR	+	0.10.	- L			L														1.01.0		.502			$\frac{1}{1}$				- -	1.00.52	LEAD TIME		~	=	11	PAGE NO.
	P-1 ITEM NOMENCLATURE CTG 5.56MM BLANK M200 LINKED	ISCAL			T NOV DEC	+	10.10	-									$\frac{1}{1}$							1	10.10 10.01	1		$\downarrow$	+			0.20			n . on . on	EMENT	AFTER	- C	7	2	PAC
	P.	H	_		AUG SEP OCT	45	0	1	$\perp$						1	+			0						3.02.01	•	1	1	1		$\downarrow$	18		-	. 0B . 0Z . 0I	PROCU	PRIOR AFTER	3	۰	9	0.
(EXHIBIT					JUN JUL AU	+	15	-	-						1	1			.01 .02						┪	6.00	+	$\downarrow$	+	$\downarrow$	-	3.05	0.70		.02.03.				INITIAL	REORDER	P-1 LINE NO.
Щ					APR MAY J	+	00 00						.50	1		+	+		.00					$\dashv$		 	+	$\frac{1}{1}$	+	+	+	H	8		.08.55.		Day.	_ T	T	<u>~</u> ]	P-1
SCHEDUL	NOI		97	EAR	FEB 199.R	+	0. 00. 00. 00. 00.								1	#	†		.01.01	_				1		.03.03.0	#	1		‡	+		.03.03.0	1-1	93 133	HONTHS T	AFTER D-	9	- 1		
- 1	7 1. AMMUNITION	L YEAR	-		DEC JAN	-	8		F							+	7	7	10.10					7		.02.03	1	+	1	14001	#107M		8		8	PRODUCTION RATES HOWTHS TO	MAXIMUM	4	T.00		
CTIC	1.1	FISCA			OCT NOV	+	. 00		-					4		7	7	7	<del>하</del>	1			7	1	1	9.05	7	+	+	Trade of the state	וואדי	1	.03.03.03		. 09 . 02 . 09	CTION	1-8-5	7	0.83		
PRODUCTION	'Y CTIVIT			1 OCT	96			0 2.50	0 38.0	0 28.0		0 0.00	0.00 0.50	0.00	0.00	00.00		0.00 0.00	0 13.0	0.00 0.00	0.00 00.00	013.0		1	00.60	32.50	2.50	38.0	0 41.0	_		6	29.03		1232	PRODU	SUST	0.00	0.70		
	ACTIVITY , ARMY/AC	ACCER	Y PRIOR	ı	۲ 0 0	П	0.00	0.00	0.00	28.0 0.00		0.00	0.0	0.00		0.00 0.00	1	<u>ه</u>	0.00	0.0	0.0	3.0 0.00		$\dashv$	14.0	0.00	00.0		0.00	III WOODS	FOINT	14.0	3,00		14.0	NAME		MO.		ļ	
- 1	GET AC TION,		RAM OTY		FY FY	+			38.0	28					00.0	اه	1				0.00	13				1		38.0	41.0	2	ار در در					URER N	TION	AAP IN	RKS FL		
	PPROPERTY AMMUNITION, ARMY/ACTIVITY		PROGRAM		96p 97		0.6	2.50				.00	0.50	0.00		+	1	00.0	3.0	0.00			-	1	23.0	- 1	2.50	+	$\int$	Į,	LWC1	03.0	32.0		PRODUCTION	MANUFACTURER	LOCA		ST MARKS		
	EMENT	t/s	) E1 (		十	4			A	A		9		SOF	SOF	SOF	Т		7	M MC	MC	MC				- 1	ALL	ALL	ALL		$\frac{1}{1}$	TOT 23		-	H.	MAN		LAKE	OLIN		
	APPROPP PROCUREN		FAC U			-			Σ	Σ						Σ		Σ	Ξ	Σ	Æ	 										×		Ħ		FAC	NO.		2		

Fig. 12   Fig. 2	Top.	101	7.4	ا الت	i K	0.00	0.00	.037.0					T						T				T	T		T		T		1.0					7
PRODUCTION SCHEDULE (EXHIBIT P-21)   PRODUCTION SCHEDULE (EXHIBIT P-21)   P-1 TINE PRODUCTION PRO	ROL SYME	E01			SEP	T	0.	임	+			-	-	-			+	+	-			1	+			1	$\parallel$		++	8				TIONS	2010 1010
PRODUCTION SCHEDULE (EXHIBIT P-21)   PROPERTY   PROPE	TS CONT				JUL		.03.0			+	_		1	1			+	+	-			+				1			++	콩				IN MI	
PRODUCTION SCHEDULE (EXHIBIT P-21)   PROPERTY   PROPE	UIREMEN COMP (A			66	ž		03.03		_	1			$\downarrow$			$\dashv$	1		-		1	$\downarrow$								4 03		TOTAL	12	TITY	
PRODUCTION SCHEDULE ANNUALITY I. MANUALITY II. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY II. MANUALITY I. MANUALITY II. MANUA	REQ DD-			YEAR	KA.	1	33.03.										1	$\perp$				$\perp$				+	H	+		3.03.0	_		i	QUAN	
PRODUCTION SCHEDULE ANNUALITY I. MANUALITY II. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY II. MANUALITY I. MANUALITY II. MANUA			YEAR 99	CALENDAR	JAN FEB		3.03.		-	+	$\parallel$	+	-			$\dashv$	+	-	H		+	+			-	+		-	1 1	50	U/M=K,				
PRODUCTION SCHEDULE ANNUALITY I. MANUALITY II. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY I. MANUALITY II. MANUALITY I. MANUALITY II. MANUA	Y 1997					$\frac{1}{1}$	3.03.0	$\prod$		-			-			7	1	F		H	1	-	H		1			1	1 - 1	50.50			1		
PRODUCTION SCHEDULE (EXHIBIT P-21)   DATE:	BRUAR	M.			ğ	-	04.0		1	1		7	-			1	1				1	1			‡				1   8	3	COMPON	9	9		
PRODUCTION SCHEDULE (EXHIBIT P-21)  CURRERAN AMMUNICAL ACTIVITY  REPORTATION FROM CATTURE  REPORTATION  REPOR	ATE	F/SA			AUG	1	4.		+	1		-	1				1				1							_			CHING	ITIAL	ORDER		ES
CHEMENT MONTHOUSET ACTIVITY 1. AMOUNT TON, ARM ACTIVITY 1. AMOUNT TON, ARM ACTIVITY 1. AMOUNT TON ARM ACTIVITY AND ACTIVITY		E LINKEI		8	<b>2</b> 55				1	_		1	1			$\frac{1}{2}$	$\pm$	$oxed{\pm}$			1	$oldsymbol{\perp}$			$\frac{1}{2}$								EN.		BAG PAG
Course   C		LATUR M200			APR				$\perp$	L			$\pm$			$\pm$	$\frac{1}{1}$			+	+	+-		$\dashv$							田田	A-	13	13	OF
Course   C		DLANK	R 98	NDAR	129				+	$\vdash$		+	+		1	-	$\perp$		$\Box$	-	+	F	H	-	1		1	H	- 6		TIV C	. AFT			11
Course   C	1)	1 EM N	IL YEA	_		1.02.0			-			$\top$		Н	$\dashv$	7	1		$\Box$	7			H	1	+		-			1	TI LEA	PROL	H	11	PAGE NO
Color   Colo	1 1.1	. 41	FISC			H		+	$\frac{1}{1}$			$\mp$	-		7	1	+			1	$\mp$	F		7	+		+				JREMEN	1 00	7	2	
Columbiant Activity   Columbiant   Columbiant Activity   Columbi	BIT				SEP		1	7	1				F		1	+	$\perp$			1	+	-		1	+	H	1	$\Box$	- 60		PROCU	1.7			NO.
SCHEDULE   SCHEDULE	EXH1			F	Į,			1	1	H	1				1	‡	1			#	#	1											NITIA	EORDE	LINE
S	1 1		ľ		ž		1		-		1	1			$\downarrow$	#			1	#	1			1	-		1						<u> </u>	~	P-1
S	IEDU	NO	97		XX XX		+	+	1		#				$\perp$	‡			$\downarrow$	$\perp$	1		$\downarrow$						8		MONTHS TO REACH MAX AFTER D-D	9	5		
PROPRIATION/BUDGET ACTIVITY  OCUREMENT AMMUNITION, ARMY/ACT  U E PROGRAM QTY PRIOR  W FY FY FY FY TO  3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 1.00 0		MUNITI	IEAR	_	_		$\frac{1}{4}$	1	İ		1				$\pm$	1			1	$\perp$				1					3,03,0		ATES	48.70	T.00		
PROPRIATION/BUDGET ACTIVITY  OCUREMENT AMMUNITION, ARMY/ACT  U E PROGRAM QTY PRIOR  W FY FY FY FY TO  3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 1.00 0	rion	1. AM	J.W.				1	+							1				$\perp$					+	+	H	+	$\ \cdot\ $	- 60		ION R		2		
PROPRIATION/BUDGET ACTIVITY  OCUREMENT AMMUNITION, ARMY/ACT  U E PROGRAM QTY PRIOR  W FY FY FY FY TO  3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 3.00 0.00  K TOT 1.00 0	DOC	VITY			T	8	0.0	0.1	+		-	+		$\dashv$	+	+	$\vdash$	H	$\dashv$	-	-			+	T	H			230		ODUCT IMUM	00	- 1	H	
ACUREMENT AMMUNITION, ARM  ACURE STATE STATE  10. WE FY FY FY FY  2 K TOT 3.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PRC	//ACTI				00 3	00.0	00.0	$\dagger$		1		Н	1	1	$\dagger$	$\vdash$		+	$\dagger$	+			+	$\dagger$	$\prod$	+	H		_		i I	+	$\mathbb{H}$	
PROCUREMENT AMMUNITION  AC U E PROGRAM  O M R FY FY FY  O M TOT  O	ACTIV	, ARM		1	П		١				1					1	T		1	$\dagger$	T		+	$\dagger$	1			$  \cdot  $		1	NAME	ND MO	انے		
AC U E PROCUREMENT AMMUN BU O B	DGET	NOILI	3RAM	$\vdash$	_	00	38.0				$\bot$			1							Į			1			1		NATHEY	<b>,</b>	TURER	AAP 1	AKKS		
PROCUREMENT  PROCUREMENT  AC U E  O M R  V V  V TOT  C TOT	ON/BU	AMMO	PRO	-		9.	+	+		$\dashv$	-	-	H	+	+	╁	_		+	+	1		-	+	+	H			OTAL RODITCH		NUFAC E LOC	CITY	SIS		
PROCU 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RIATI	REMENT		4>		ĮĮ.	_	_							1				1										_	•	MA	LAK	770		
	PPROP	PROCU				T	T				Ŧ		Ħ	T	T	T		H	T	T	T			T				H	7		FAC NO.		7		

Part   Part							1		l		1					משיאים				ŀ				
Control Figure   Cont	4	1	or or or or		PROL	CLLI	ı	CHED	띠	EXHI		`.'				PAIE	EBRUAI	۲۲ 199	7	DD	COMP (A	IIS CONT IR) 1092	CIL SIME	j.
Fig. 2014   Fig.	A P P R PRO	OPRIATI	ON/BUDGE AMMUNITION	ᅀᆈ	/ITY //ACTIVI	TY 1.	AMMUNI	TION				v-1 ITE CTG 5.5	OM NOME	NCLATU NK M200	IRE I LINK	ED F/S	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \						E01	101
Fig.   Fig.	FAC		PROGRAM	VII.O			AL YEÄ	R 00			<u> </u>	FISCAL	YEAR	10			$\vdash$	SCAL	YEAR 02					17
Y FY FY FY FY FY FY FY FY FY FY FY FY F	NO.			, ,			CALE	NDAR YEAR		00			CALENDAR	YEAR	10		+		CALENDA	R YEAR	02			عيا
MA   256   57   58   59   59   50   50   50   50   50   50		$\Box$	FY	FY		OCT.	рвс	FEB MAR	APR MAY	JUL	SEP	NOV	JAN FEB	E E	SUN		SEP OCT	NOV		B MAR A	XA.	JUL	SEP	ıα
MA		ľ	97	99	66	1	$\frac{1}{2}$	$\frac{1}{1}$			+						$\left  \cdot \right $							
MA		æ	3.0		3.00.0		$\downarrow$	$\frac{1}{1}$	-	+	7						_							0.00
MA	-1	A	9.0		9.0				1	1														0.00
MA	٦		2.50		. 50 0.0																			0.00
No. 20   10   10   10   10   10   10   10	-		38.		18.0 0.0	ᅦ																		00.0
SOP D-06   SOP D-06   Color 0.00   Color 0	1			28.0 (	00 28.	8	0.00.2	2.03.0	굗	3.02.03	03.0													0.00
SOF 5-06   0.00 0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00   0.00 0.																								
M SOP		SOF	00.0	)	0.00 00.0	0											-							0.00
M SOF   D. 00   0.00	-1	SOF	0.50		.50 0.0	- 0				L		-				<u>.</u>	-							00.0
M SOF			00.00	J	0.00 00.0	1 10						_					-		_	-				00.0
M SOF			). d		0.00 00.0	C				H														0.00
NEC   2.00   0					0.00 00.0				$\dashv$	1														0.00
MKC 23.00   0.00 0.000   0.0		į		1		1			1	7	1	1					-							
M   M   M   M   M   M   M   M   M   M		ł	00.0		0.00 00.0			$\int$	7	7					7									0.00
MKC   D.00   0		- 1	13.0		3.00.0				1	1	4					-								0.00
M   M   M   M   M   M   M   M   M   M		M MC			0.0000				7			-			1		-							00.00
Mile		WC WC	اة		0.00 00.0	1	1	7	1	7	+	$\downarrow$			7	1	+	1						0.00
ALL B2.6   25.0 0.00		ω Ψ	-		00 13	하	라	하	<del>8</del> .0	링	하	$\frac{1}{1}$		+	1	1	+							0.00
ALL 23.0   2.50   2.50   0.00					$\frac{1}{1}$	$\frac{1}{4}$		$\int$	+	+	+	+	1	+	7	-	+	+	1	1	1		-	
ALL   2.50   22.0 0.00   2.5			1	 		1			+	†	+	+		†	#	7	+		$\downarrow$	$\frac{1}{1}$			1	
ALL   2.50   32.5   0.00			33.0		3.0 0.0		$\frac{1}{2}$		#	$\downarrow$	+	$\frac{1}{1}$	1	+	+		$\dashv$	+						0.00
ALL   2.50   2.50   0.00									+	+	1	#		$\frac{1}{1}$		1	+	$\exists$						0.00
ALL   B8.0   38.0   0.00   41.02   08.04   08.04   09.04   0		ALL	2.50		.50 0.0				#	†	+	$\frac{1}{1}$		+	+		-	$\dashv$	_					0.00
Mainter   Main		ALL	38		0.0					+	+	+	1	1	1	7	$\perp$	+		1				0.00
R TOT 23.0   COMPONENT: PROPELLANT WCB14   COMPONENT: PROPELLANT WCB14   COMPONENT: PROPELLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT: PROPERLANT WCB14   COMPONENT:		ALL			00 41.	9	3.04.0	3.04.0		라	哥	+		+	+	1	1	1		_				0.00
TOT 23.0   0.00   K   TOT 23.0   0.00   K   TOT 23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0   0.00   C   23.0					_			1	+	+	#	+		+	1	+	-	+	1	1	+	+		
K TOT \$2.0   23.0   0.00			FACTING	COMPON	_	TATE OF THE PARTY	WC 814	}	1	+	+	-	Ţ.	+	+	‡	Ţ	+	1	+		+		
K   TOT   22.0   32.0   0.00   1.00	^	ToT.	3.0		3.0			F	F	L	+			+	-	Ŧ	$ar{\parallel}$	+	$\perp$	1	#	+		6
TROCKLETION NAME   PRODUCTION RATES   Name   PRODUCTION RATES   Name   PRODUCTION RATES   Name   PRODUCTION	2	ī	12.0	3	2.0 0.0													-		<u> </u>	L			
PROBLETION AND PROBLET NAME   PROB										+														2
MANUFACTURER NAME   PRODUCTION RATES   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT (U/M=K/LB)   PROCUREMENT LEAD TIME   NALT PLT TOTAL   NAT PLT TOTAL   NALT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NAT PLT TOTAL   NA			PRODUCTION		6.0 41.	<u>13.03.0</u>	3.04.0	3.04.0	. 04 . 03	.03.04	04.0			1	$\exists$	7								00.0
MANUFACTURER NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE   NAME   FIGURE		-				110mT0	1 DAME	SHILANING	_ 		i Doda	DEMENT		TIME	<u></u>	EMARKS.	J. J. J. J. J. J. J. J. J. J. J. J. J. J	TATING	70,11	1				
LAKE CITY AAP IND MO. 0.00 14.10 48.70 6   1 OCT   1	NO		NUFACTUR & LOCATION	EK NAME ON		M 1-8-5	MAXIM	A AFTER	ž PA PA		PRIOR	LEADTIME I AFTER		14	T	) ;	m m	ALT.	ALT	N LD) PLT	TOTA			
OLIN ST MARKS FL.         0.70         0.83         1.00         0         INITIAL         6         2         11         13         REORDER         6         11         1         12           REORDER         6         2         11         13         QUANTITY	T	LAK	(E CITY AA)	P IND MC		14.1	0 48.	9 02	1		1 00.1	1 OCT	PROD.	AFTER 1	ğ	INITIA			11	7	12	1		
6 2 11 13 QUANTITY	7	OL.	IN ST MARK	1 -1		- 1		- 1		INITIA		7	11	13		REORDE			11	<b>~</b>	12			
QUANTITY	<u></u>	$\frac{1}{1}$			$\frac{1}{1}$	$\downarrow$	_	$\downarrow$	T	REORDE		2	111	13	T					Ę				
	_								]						]					OUA	VI.I.Y		CLIONS	,,

. SYMBOL	E01101	],	: EF	SEP	0.00	00.00	00.00												0.00				IONS	
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092			02	אא טטא טטנ אטט																ז מדיטקי	12 12	7	QUANTITY IN MILLIONS	
		YEAR 02	CALENDAR YEAR	JAN FEB MAR APR																(U/M=K/LB)	1		QUANT	
DATE FEBRUARY 1997		FISCAL		SEP OCT NOV DEC																PACING COMPONENT (	91	٥		
	JRE O LINKED F/SAW		01	A JUL AUG																П	LJ0	NEOKUEK		48 PAGES
	ITEM NOMENCLATURE 5.56MM BLANK M200 LINKED	(EAR 01	CALENDAR YEAR	APR																LEAD TIME	PROD. AFTER 1		11 13	PAGE NO. 26 OF 48
P-	P-1 ITEM CTG 5.56	FISCAL		SEP OCT NOV DEC																PROCUREMENT ADMIN LEADTINE	i oct i oct	$\dashv$	6 2	
E (EXHIBIT			00	MAY JUN JUL AUG			4.03.03.03.0											70 FO FO	30	I I		INITIAL	REORDER	P-1 LINE NO.
SCHEDULE	UNITION	EAR 00	CALENDAR YEAR	JAN FEB MAR APR			04.03.0											80 80 GO	10 · do · 10 · do · 1	ATES REACH MAX XIMUM AFTER D-DAY	1 00 6	1 1		
PRODUCTION	VITY 1. AMMUNITION		As of 99	OCT NOV DEC	0.00	00.00	37.04.03.03.04.03											0 00 00 00 00 00 00 00 00 00 00 00 00 0	do do do do .	PRODUCTION RATES MONTHS TO MINIMUM IN 1-8-5 MAXIMUM AFTER D-DAY	0.00 14.10 4	1 1		
PRC	N, ARMY/ACTIV	ACCEP.	2 to	FY 99 99	3.00	38.0	41.0 4.00 3												96.0			rh.		
PE	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	PROGRAM		FY FY FY 98	3.00	38.0							<del> </del>					TOTAL MONTHLY	PRODUCTION	MANUFACTURER NAME & LOCATION	LAKE CITY AAP IND MO	ULIN ST MAKKS		
T da O d d d K	PROCUREME	FAC U E	Σ	>	×	×	2 K TOT													FAC NO.	1			

	BUDGET ITEM JUSTIFICATION SHEET	ITEM	JUS	TIFIC	AT	ION	SHE	T.		FEBRUARY 1997	ARY 1	166
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIVI	TY				P-1 ITE	P-1 ITEM NOMENCLATURE	CLATURE				
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, ARM	Y/ACTIVITY 1	AMMUN	ILTION		CTG 5.56	6MM TRAC	CTG 5.56MM TRACER M856 F/M16A2	/M16A2			(E04602)
	FY 96	6 FY	97	FY	98	FY	66	FY	00	FY 0.1	1 0	01 02 FY 03
QUANTITY (Thousands)	1491	-0-		8599		7830	c	7947		5456		552275579
COST (In Millions)	۶.	-0-		\$ 3.5		\$ 4.2		\$ 4.4		\$ 3.1	V)	\$ 3.2/3.3

#### DESCRIPTION:

daylight trace range compared to the 5.56mm M196 tracer round. This cartridge can be identified by an orange bullet The M856 tracer round has a longer tracer column and an improved pyrotechnic mixture, which results in an increased This item will be tip and is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact. This item is used in the M16A2 rifle. This item is Code A, approved for service use. procured through the CAWCF at a fixed standard price.

# JUSTIFICATION:

This is a training standard item used in both training and combat. FY 98/99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

# TYPE CLASSIFICATION DATE:

1982

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

ITEM NOMENCLATURE: 5.56MM TRACER M856 F/M16A2

P-1 CTG

DATE: FEBRUARY 1997 NSN = 1305-01-155-5457 (E04602)

PCN: P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

TOTAL 3399 210 375 9 42 26 130 4248 3666 582 7829894) UNIT 0.435.8669.9 0.54 (QTY 7829894 9788 QTY 31320 66 FΥ 2831 175 312 8 35 22 107 3538! 3054 TOTAL 6657732) 0.43 6.55 UNIT 0.53 (QTY 6657732 8323 QTY 26631 98 FΥ TOTAL UNIT (QTY QTY 97 抷 21 13 121 850! 39 664 TOTAL 1491000) UNIT  $\frac{0.41}{5.62}$ 6.50 0.57 (QTY 1491000 1939QTY 6039 1. PRODUCTION ENGINEERING
2. QUALITY ASSURANCE
3. ACCEPTANCE TESTING
5. INTERIM TRANSPORTATION
6. INDUSTRIAL STOCK SUPPORT
6. CAWCF GAIN/LOSS SURCHARGE 96 FΥ TOTAL P-1 LINE ITEM! 1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M2A1 3.PROPELLANT WC844T (LB) PRODUCTION SUPPORT ELEMENT OF COST OM: EACH HARDWARE SUBTOTAL

P-1 ITEM NO. 1 PAGE NO. 28 of 48

1	J
≺	۲
c	)
C	)
۵	7
,	4
≥	Ξ
C	X
Ċ	٧
C	)
۵	Ĺ,
Z	Z
t	ز
ō	۲.

DATE: FEBRUARY 1997

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	1 1 1 1 1 1 1 1 1 2	DAIE	DAIE: FEBRUARI 1507		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROPRIATIO	APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-01-155-5457	1-155-54	157	
PROCUREMENT	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNIT	NOIL	CTG 5.	56MM TRACER	CTG 5.56MM TRACER M856 F/M16A2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ( † † [	(E04602)	12)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, AS	1. LOAD, ASSEMBLE, AND PACK (LAP)		 	 	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1				
FY 199	6 OLIN CORP	SS/CPAF	IOC	FEB 96	OCT 96	1491000	0.41			
FY 199	1NDEFENDENCE, MO 18 OLIN CORP	SS/CPAF	IOC	VOV 97	OCT 98	6657732	0.43	YES	ON	
FY 199	INDEPENDENCE, MO FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	7829894	0.43			
2. BOX METAL M2A1	1L M2A1									
FY 199	36 BROCKWAY STANDARD	C/FP	IOC	36 NOC	OCT 96	1939	5.62			
FY 199 FY 199	HOMEKVILLE, GA FY 1998 TBS FY 1999 TBS	C/FP C/FP	100	JAN 98 JAN 99	JUL 98 JUL 99	8323 9788	5.74 5.86	YES	ON	
REMARKS:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					; ; ;

TBS - To Be Selected

29 of 48 PAGE NO. -P-1 ITEM NO.

	1
2	
4	1
Ω	1
0	Į
8	1
디	1
⋝:	1
Ö	1
02Q	1
PO.	1
7	ı
	ı
Z	ı
υ	1
ď,	ı

; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		               	PROCUREMENT HISTORY & PLANNING	, HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	۲۲ 1997 	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
APPROPRIATION/	APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-01-155-5457	1-155-54	157	
PROCUREMENT AMMUNITI	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNI	TION	CTG 5.	56MM TRACER	CTG 5.56MM TRACER M856 F/M16A2		! ! ! !	(E04602)	02)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
3. PROPELLANT	3. PROPELLANT WC844T (LB) **	                         	! ! ! ! ! ! ! ! !	}               	 	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	; 		
FY 1996 (	NITC	SS/FP	IOC	APR 96	SEP 96	6039	6.50			
FY 1998	SI. MAKKS, FL OLIN	SS/FP	TOC	AUG 98	SEP 98	26631	6.55	YES	NO	
FY 1999	FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	31320	69.9			
REMARKS:		]   							1 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

\*\* PACING COMPONENT

PAGE NO. P-1 ITEM NO. 1

30 of 48

PRODUCTION SCHEDULE (EXHIBIT P-21)   DATE   REQUIREMENTS CONTROL SYMBOL	TONITION CTG 5.56MM TRACER M856 F/M16A2	ISCAL YEAR FISCAL YEAR 97 98 99	TO AS OF 96 CALENDAR YEAR 97 CALENDAR YEAR 99	FY FY FY FY GO 0CT NOV DEC JAN FEB NAR AFR NAY JUN JUL ANG SEP OCT NOV DEC JAN FEB NAR AFR NAY JUN JUL ANG SEP OCT NOV DEC JAN FEB NAR AFR NAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	00.00 00.00 00.00	1.50 0.00 1.50.30 20.30.20.30.20 0.00 0.00 0.00 0.00	<b>6.70 10.00 16.70 10.00</b>	7.80 0.00 7.80	0.00 0.00 0.00	1.50 0.00 1.50.30 .20.30.20.30.20	0.00 0.00 0.00	<b>6.70</b> 0.00 6.70	08.// 00.00.00 0.00 0.00 0.00 0.00 0.00	PACING COMPONENT: PROPELLANT WC844T	7.00	6.00 11.00 5.001.01.01.01.01.0	0.00 0.00 0.00	<b>27.0 10.00   27.0 10.00   27.0 10.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.02   03.03   </b>	31.0 0.00 31.0				FRONDE MONTHLY 0.00 16.01.30 1.20.30, 20.30,	TENDENICTION RATES INCOMES TO PROCTIBEMENT LEAD TIME PACING COMPONENT (11/M-K/LB)	UALT	1 OCT 1 OCT PROD. AFTER 1 OCT INITIAL 6 11 1	0.70 0.83 1.00 0 INITIAL 6 2 11 13 REORDER 6	REORDER 6 2 11 13	
	APPROPRIATION/BUDG PROCUREMENT AMMUNIT	FAC U E PROGRA		FY FY	0.00	1 M A 1.50	A 0.00	M A	ALL 0.00	1.50	ALL 0.00		ALL	PACIN	K TOT 7	TOT 6.00	TOT 0.00	K TOT	2 K TOT				TOTAL MONT	-	NO. RANUFACTO	1 LAKE CITY A			

NODUCTION SCHEDULE (EXHIBIT P-	P-1 ITEM NOMENCLATURE CTG 5.56MM TRACER M856 F/M16A2	FISCAL YEAR 00	TO AS OF 99 CALENDAR YEAR 00 CALENDAR YEAR 01 CALENDAR YEAR 02	FY FY FY FY FY OO OO OO OO OO NO DEC JAN FEB MAR APR APR APR APR APP APP APP APP APP A	0.00	1.50 0.00	0.00 0.00 0.00	6.70 00.00	7.80 0.00 7.80, 60, 60, 60, 70, 60, 70, 70, 70, 70, 70, 60	00.00 00.00 00.00	1.50 0.00	0.00	6.70 0.00	7.80 0.00 7.80, 60, 60, 60, 70, 70, 70, 70, 70, 70, 60	DACTING COMPONENT: DROBELLANT WCR44Th			0.0	27.0 0.00	31.0 3.00 28.08.08.08.08.08.08.08.08.00.00.00				ROBUCTION 8.20 7.80.60.60.60.70.60.70.60.70.70.70.70.70.60	PRODUCTION RATES worms to PROCUREMENT LEAD THININGS (ADMIN LEADTINE)	0.00 2.80 9.80 6 10cT 1 oct PROD. AFTER 1 oct INITIAL 6 11 1	ST MARKS FL. 0.70 0.83 1.00 0 INITIAL 6 2 11 13 REORDER 6 11 1	REORDER 6 2 11 13
	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY	U E PROGRAM		FY FY FY	3/ 30	- A	M A	A 6.70	1 M A 7.80	ALL 0.00		ALL 0.00	6.70	ALL 7.80	DACTING COMPO	K TOT 7.00	2 K TOT 6.00	K TOT 0.00	27.0	KI TOT				TOTAL MONTHLY PRODUCTION	FAC MANUFACTURER NAME	╀	2 OLIN ST MARKS FL.	

CHERT	
JUSTIFICATI	
TEM	
BUDGET	ì

•	
	1997
DATE	FEBRUARY

							-						
APPROPRIATION/BUDGET ACTIVITY	SUDGET ACTIVITY	<u>_</u>				P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 2.	UNITION, ARMY/	ACTIVITY	2.			CTG 5.56	SMM BALI	CTG 5.56MM BALL M855 LINKED F/SAW	D F/S	W		(E	(E04603)
	FY 96	FY	Y 97	FY	98	FΥ	66	FY (	00	FY	1 2	FY 3	3
QUANTITY (Thousands)	7550	l	-0-	9801	11	8174	<del>41</del>	8447		8506		8591	8591/8583
COST (In Millions)	\$ 4.3	ស	-0-	\$ 4.	4.4	\$ 3.7		3.9	w	4.1	₩.	\$ 4.2/4.3	/4.3

#### DESCRIPTION:

This The Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert in the ogive of the bullet. round will be linked in 200 round belts using the M27 link. This item is Code A, approved for service use. This item will be procured at a fixed standard price.

# JUSTIFICATION:

This is a training unique item; not used in combat. This round is used primarily for training in areas where a fire hazard exists if the tracer round were to be used. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 5.56MM BALL M855 LINKED F/SAW

DATE: FERRUARY 1997 NSM = 1305 01 258 8692 (E04603)

PCN:P020M1POC45

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

	FY 96 (QTY	759	7550000) FY	Y 97 (QTY		_	FY 98 (QTY		9801422) ]	FY 99 (QTY	81.3	8173602)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	УТQ	UNIT	TOTAL.
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.PROPELLANT	7550000	0.40	3039				9801422	0.34	3355	8173602	0.35	2857
WC844 (LB) 3.LINK M27 SUBTOTAL	7738750	0.02	194 128: 3361:				39206 9997451	6.55	167	32695 8337075	0.03	219
PRODUCTION SUPPORT									· - · - · · · · · · · · · · · · · · · ·			
1.PRODUCTION ENGINERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION	ON ENGINERING ASSURANCE NCE TESTING TRANSPORTATION		104 39! 13!						386 9 43			329 8 37 23
TRIAL STOCE GAIN/LOSS	SURCHARGE		168! 614!			<b></b>			135!			113
SUBTOTAL 943			943						009			510
TOTAL P-1 LINE ITEM	*****	0.57	4304!	*********	* * * * * * *	*	***	0.45	4379!	***************************************	4 * * * * * * * * * * * * * * * * * * *	3729

P-1 ITEM NO. 1 PAGE NO. 34 of 48

PCN PO2QM1DOD4Z

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	:	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-01-258-8692	01-258-80	592	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CTG 5.	S6MM BALL M	CTG 5.56MM BALL M855 LINKED F/SAW	'SAW		(F04603)	0.3)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REOD	TE TES WHEN AVATE
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1996 OI,IN CORP	SS/CPAF	OOI	96 NUC	OCT 96	7550000	0.40	; ; 1 1 1	: : !	
INDEPENDENCE, MO FY 1998 OLIN CORP	SS/CPAF	IOC	76 VON	OCT 98	9801422	0.34	YES	. ON	
INDEPENDENCE, MO FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	8173602	0.35			
2. PROPELLANT WC844 (LB) **									
FY 1996 OLIN	SS/FP	IOC	SEP 96	SEP 96	30200	6.42			
FY 1998 OLIN	SS/FP	IOC	AUG 98	SEP 98	39206	6.55	YES	ON	
ST. MARKS, FL FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	32695	69.9			

\*\* PACING COMPONENT

P-1 ITEM NO. 1 PAGE NO. 35 of 48

	1
£3	ı
4	1
Ω	1
0	ì
$\Box$	ı
$\vdash$	ŧ
Σ	1
Q	1
2	1
0	1
ď	1
	1
$\mathbf{z}$	1
U	1
Д	1

TBS - To Be Selected

P-1 ITEM NO. 1 PAGE NO. 36 of 48

MAINTON   MAIN	TAUTY   1. MONUTON   CTO 5. SON BALL MINE   FEBRUARIA   PARK   FEBRUARIA   PARK   FEBRUARIA   PARK				PRODITION SCHEDIII F (FYHTEL	rp 5-211	DATE 1007	RECTUREMENTS OF LANGEST	_
TAUTIVATIVA   AMMONTHON   Part   Pa	TAUTITY 1, ANDIANTION	4	0.100		CODOCITOIS SCHEDORE	1 F - 4 L )	FEBRUARI 1997	DD-COMP (AR) 1775	T
Fig. 2017   Fig.	Fig. 20   Fig.	A P P R C	VR LATIC UREMENT	ON/BODGET ACTIVIT AMMUNITION, ARMY/A	TIVIT	I'I'EM NOMENCLA'I'URE 5.56MM BALL M855 LINKE		E046	0.3
No.	No.	, (	ស្ន	ACCEF	P. BAL FISCAL YEAR 97	FISCAL YEAR	FISCAL		-<
V   FYP FOY FOY FOY FOY FOY FOY FOY FOY FOY FOY	V   Feet Pay Pay Pay Pay Pay Pay Pay Pay Pay Pay	NO.		7 7 7	AS OF 96 CALENDAR YEAR		CALENDAR YEA	66	تات
NA	No. 1, 12, 12, 12, 12, 12, 12, 12, 12, 12,		┶┪	FY FY FY	1 OCT OCT NOV DEC JAN FEB HAR APR HAY JUN JUL	SEP OCT NOV DEC JAN FEB MAR APR MAY JUST	AUG SEP OCT NOV DEC JAN FEB	AFP MAY JULY AUG SEF	22
NA	N	,	,	97 98 99					0.0
M	M   M   M   M   M   M   M   M   M   M	-	4		7 60 401 1 701 51 52				00.00
MAC	MA	1	. A	0.00	0.00			0	0.00
M A	M			9.80	0 9.80		.50.501.01.01	.01.01.0.501.0.80	00.
M KC   D. 0.0   D.	M KC   D cool	17		8.20	0 8.20				8.20
M N C   D C O   0 C O O C O C O   0 C O O C O C O O C O O C O O C O O C O O C O O C O O C O O C O O C O O C O O C O O C O O O C O O O C O O O C O O	M N C		1						0
M N	MKC   0.00   0		П		00.00				00 00
No.   No.	NEW   0.00   0				00.00				00.00
MAR   1.40   0.00   0	No.		W WC	00	00.00				300
MAR   3.40   3.40   0.00   0	MAR   1.00   0	-		4 40	0 4 40			7	40
Name	National Process   National Pr	1							
National   National	Nat. B	-			00.00			0	00.0
Nat	MAF   0.00   0.00   0.00   0.00   0.00		AF		00.00			0	0.00
MAF   1.40   0.00 1.40   1.50   50.40   1.50   1.	M AF		1 1	0.00	00.00		,	0	0.00
M AF	ALL   2.89   3.89   0.00   0.00   1.50   0.00   0	7	M AF		1		50.4	0	0.00
ALL 7.60	ALL 5.89   3.89 0.00   1.00 0.00   1.55, 52.4	Н						7	2.00
ALL D. 89   3.89   0.00   0.00   7.60   400   1.70   52.4	ALL								
ALL B.89   0.00   1.0	ALL   2.89   3.89   0.00   0								T
ALL	ALL   0.00		-01					0	00
ALL   0.00   0	ALL   0.00   0		-		7.60.401.1.701.51.52.				00.
ALL   11.2   0.00 11.2	ALL		ALL	00.	00.00				00.
Maintain   Marks FL.   Marks	ALL		ALL	. 2	0 11.2		.0.901.01.01.	.01.01.0.501.0.	00
REORDIS COMPONENT: PROP WC 844	R TOT 16.0   16.0 0.00   16.		ALL		10 14.6				4.6
K   TOT   16.0	K   TOT   16.0								
K TOT 16.0   1	K   TOT   16.0				PROP WC				
K   TOT   30.0   5.00   25.05.05.05.05.05.05.05.05.05.05.05.05.05	TOT 30.0   1.01   1.0	,	E CE						2
TOTAL MANUFACTURER NAME	TOTAL MANUFACTURER NAME   PRODUCTION RATES   FIGH   FROM NATE   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT (U/M=K/LB)   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT (U/M=K/LB)   PROCUREMENT (U/	7 (	7 E						
PRODUCTION RATES   1.00   0.00   1.00   0.00   1.00   0.	PROCUREMENT LEAD TIME   PRODUCTION RATES   PROCUREMENT LEAD TIME   PROCUREME	7	21		0.00.00.00.00.00				00.
MANUFACTURER NAME   PRODUCTION RATES   FRANKER NAME   PROCUREMENT LEAD TIME   PACTOR   LAKE CITY AAP IND MO.   0.00   15.08   1.00   0   INITIAL     6   2   11   13	MANUFACTURER NAME   PRODUCTION RATES   ROWNES NAME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   O'ALL ALT PLT TOTAL   O'100 15.08 52.10 6   O'INITIAL   6 2 11 13   REORDER 6 11 1 1 12				9 33.4.401.1.701.51.52.4		1.01.0.901.01.01.	.0.501.0	4.6
MANUFACTURER NAME   PROPERTIES   PROPERTIE	MANUFACTURER NAME   PROPERTIES   PROPERTIE	Į	ŀ		OF SHOWING DAMPS TO	באזיי המק.	COMPONENT	(a	
LAKE CITY AAP IND MO. 0.00 15.08 52.10 6	LAKE CITY AAP IND MO. 0.00 15.08 52.10 6	FAC NO.		ANUFACTURER NAME & LOCATION	MINIMUM 1-8-5 MAXIMIM AFTER D-DAY	TOTAL TOTAL	UALT		
OLIN ST MARKS FL,         0.70         0.83         1.00         0         INITIAL         6         2         11         13         REORDER         6         11         1         12           REORDER         6         2         11         13         QUANTITY	OLIN ST MARKS FL,	-	-		0.00 15.08 52.10 6	PROD. AFTER 1 OCT	6 11		
6 2 11 13 QUANTITY	6 2 11 13 QUANTITY 1 PAGE NO. 37 OF 48 PAGES	2	OLI	ST MARKS FL.	0.83 1.00 0	6 2 11 13	6 11	12	
	1 PAGE NO. 37 OF 48 PAGES				REORDE	6 2 11			
	1 PAGE NO.	]						-	7

	03		₹₽₽	.x	0.00	0.00	3.0						Τ							-	T	Τ					П		$\top$	9 1					
PECCUPEMBIT'S COURDOL STMBOL DD COMP (AR) 1002	E04603	=-	<u></u>	13 13	0		5.053.0				1	$\perp$	$\perp$	$\perp$						+		+			-	+	$\left  \cdot \right $	+	+	.0.8014.6					QUANTITY IN MILLIONS
urpest.				Attre		.03.0						$\perp$																		1.0					
E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				Jun and	+	3.03.	-	+	-		+	+	+	+	_			_	+	+	-	_		$\dashv$		-	H	+		.0.501					ZI ZI
FEMEN TP (A)			66			03	$\dashv$	+	+-	H	+	+	+	+	╁			$\dashv$	+	+	+		H	$\dashv$	+	+-	H	+	+	릵		TOTAL	~ ^	1	ĽΤΥ
PE, 41				A1 R		4.0												1			$\top$			$\top$	$\dagger$	-	$\Box$		1 1	테ㅣ	_		12	1	JANT
			R YEAR	B MAR	- -	04.0	_	$\bot$	$\perp$		4	_	-	igert	_			4		1		L			I					.01.	(/LB	PLT			Šį
		YEAR	CALENDAR YEAR	JAN FEB	+	.04	+	+-	+	Н	+	+	+	+	$\vdash$		$\dashv$	$\dashv$	+	+		-		$\dashv$	+	-	$\vdash$	-			(U/M=K/LB)	ALT			
1997		1	Ť	DEC		.04.04.04.04.04.04.04.04.04.0													$\perp$	$\perp$	$\dagger$			+		-	H	+	3	. 01. 9 011 . 011			11		
		FISCAL		NON		04.0		_			$\perp$	$\perp$					$\prod$												5	5	PACING COMPONENT	UALT			
BRUA		<u>[1,</u>	-	SEP OCT	+	04	+	+	$\vdash$	Н	$\dashv$	+	+	+-		Н	-	+	-	$\downarrow$	+	H		$\dashv$	-	+		<b>-</b>	-	T	COME	, G	99		
DATE	F/SAW			AUG S	+	4	$\dagger$	+	-	H	$\dagger$	t	$\dagger$				$\dashv$	+	+	+	+	Н	$\dashv$	+	╁	+	+	+	-	-	IKS IKS	,	INITIAL REORDER		
DA	ED F			JUL							1		Ĺ	L						İ										-	FARE		REO		38 00 10
	ITEM NOMENCLATURE 5.56MM BALL M855 LINKED		98	750 X	$\perp$			$\bot$			_	$\perp$	$\perp$	L	_	-	$\dashv$	1	4	$\downarrow$				_ _	Ţ	П					П	Fig	;		
	ITEM NOMENCLATURE 5.56MM BALL M855 LI			APR MAY			+	+		$\mid \cdot \mid$	+	+	╀	╁	_	$\dashv$	┪	+	+	╁	+-	H	$\dashv$	+	+	+	+	-	-	+	6-1	TAL	13	12	
	NCL.	ã	YEAR	MAN.														$\dagger$	İ	T	T		$\top$	+	$\dagger$	$\Box$		+	$\top$	1	TIME	TOTAL			ļ ģ
	NOME 1 BAI	AR	CALENDAR YEAR	JAN FEB MAR	+	_	-	1	$\bot$	$\Box$	_	_	-	ļ			$\perp$	_	_	1	$oxed{\bot}$			Ţ						]	LEAD	PROD	11	=	9
	EM 56M	FISCAL YEAR	5	DEC	++	$\dashv$	+	╁	Н	$\dashv$	+	+	+	H	H	$\dashv$	+	+	+	+	╁	Н	$\dashv$	+	+	H	-	+		-	T.	<u> </u>		1	PACE NO
	2-1 II CTG 5.	SCA		NOV													1		丄	İ							$\dashv$	+	+		EMEN	PRIOR AFTER	2	~	11
T P	<u>ا</u> ک	ഥ	-	SEP OCT	+-1	$\dashv$	$\perp$	$\perp$	$\square$	$\dashv$	4	+	╀	-	Ш	$\dashv$	_	+	_	L	_			_	_			$\prod$	1	]	CUR	Z S S S	9	٧	-
(EXHIBIT				NUG SE	$\dagger \dagger$	+	$\dagger$	+	H	+	+	+	$\vdash$	-	Н	$\dashv$	+	+	╬	╁	+	H	+	+	╁	H	- -	+	+	-	PRC	8 E	<u> </u>	3 14	Ş
XHI				Jul	П								İ						土		T		+	$\perp$	$\dagger$	H	$\top$	$\top$	+				TATEL	REORDER	P-1 LINE NO
(E)			97	MAY JUN	$\square$	$\downarrow$	+	┨	Н	4	+	1	igdash			-	_	4	$\perp$	_			$\bot$		$\bot$			П						A E	] [-
LE				APR MA	++	+	+	-	Н	$\dashv$	╬	+	-			$\dashv$	+	+	╁	+	+	Н	+	+	╁	H	+	+	+	┨	23	-DAY	TT		1
EDU	Z	97	YEAR	FEB MAR			工											İ											-	-	EACH M	G REF			
SCHEDULE	( 1. AMMUNITION	AK 9	CALENDAR YEAR	JAN FEB	$\bot \downarrow$	4	+			+	4	$\downarrow$				$\dashv$	4	4	$\bot$		_		_	_	$oldsymbol{\downarrow}$	$\square$			22 / / / / 1 / / /   5/ 5/ /	C = T/	PRODUCTION RATES MONTHS TO	<u>ا کو</u>	1.00		
I I	NAMO.	ਸ ਮ	3	DEC	H	+	╁	Н	$\vdash$	+	+	╁	-	Н	$\dashv$	$\dashv$	+	+	+	+		H	$\dashv$	+	╁	H	+	+		1	RAT	MAXI	- 1 - 1		
PRODUCTION	1.7	SCAI	96	MOV		1				1															土		上		-	1	ION	-8-5	0.83		
UC	Z.	<u> </u>	Ш	oc.		<b>.</b>	5		$\sqcup$	_	$\downarrow$	lacksquare	L			4	4	4	$\downarrow$	L	<u> </u>		_	_	$\perp$	Ц	1		70	, , , , , , , , , , , , , , , , , , ,		T F		-	$\left\{ \right. \right\}$
SOD	IVI	BA L			0 9	45.0	58.0	Ш	Ц									$\perp$	┸						$\perp$				3.3		PROI	SUST TSIS	0.70		
딥	Y/AC	ACCEP. PRIOR	To 1 oct	96	0.00	000	00.0								ı									ŀ			-		00 6	6					1
	ARM	OTV	- 1	FY			0.80	П				1								T			1	T		П				1	MANUFACTURER NAME		OLIN ST MARKS FL.		$\prod$
	NO.			FY oo		45.0	<u>~</u>	Н	$\forall$	$\dagger$	+	$\dagger$	┢		$\dashv$	+	$\dagger$	+	+	┢	+	$\exists$	1	+	╁	H	+	+	417.7	ل	ER.		ST MARKS FL		
	NITI	PROGRAM		FY		-	+	H	$\Box$	$\dagger$	+	╁			1	+	$\dagger$	$\dagger$	$\dagger$	$\vdash$	$\vdash$	$\dashv$	+	+	+	H	+		NOM	NOT I	CTO	CAT	MARK	İ	
	AMM A	PRO	: }	FY F		+	+	Н	$\dashv$	$\dagger$	+	+		Н	$\dashv$	1	$\dagger$	$\dagger$	+-	╁╌	╁	$\dashv$	+	+	1	H	+	+	TOTAL MONTHLY	2000	UFA	3 5	ST		
	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	ro r		+	+		+	H	$\dashv$	+	+	+	$\vdash$	H	+	+	+	+	+	$\vdash$	$\vdash$	$\dashv$	+	+	+	H	+	+	_[~	<u>z</u> .	MAN	3	OLIN		
	URE		) <u>E</u>	1			X D	Ц		$\perp$	+	L				4	$\pm$	+	$\bot$	L			$\perp$	+	+	$\coprod$	$\perp$	$\coprod$	$\exists$			$\top$	$\dagger \dagger$	+	
id	PROC	O.A.	NO.			7 (	7																								FAC	<u>.</u>	7 7		
	τ	Ţ	, Z		Lİ			Ш		l_	丄	Т.		Ш			L_									Ш		لــــــــــــــــــــــــــــــــــــــ							

ŧ	503	<	£-1	್ತ≃		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	00.0	00.0		0.00	00.0	00.00	00.00	00.0			00.0	00.0	0.00	00.0	00.0				0.00	00.00							
हत्ता दश्माखना	E04603	-		das.	7		<u> </u>	J									-															1	1							) 	TIN ELLEPTORIS
्र <sub>व</sub> ्य				JUL AUG	+	$\dashv$							_	-					_		_											-	+	+	H					144	
RECOTREMENTS  DD COMP (AR) 10%				314																																	AL	!			
HIRENI CAMP			05	MAR AFR MAY	-	4	$\dashv$			_									L						_						1	-	_	-			TOTAL	12	12	OHANTIA	
P.E.			EAR	MAR AF	$\dashv$	$\dashv$	$\dashv$						<u> </u>					_			_		Н	-						$\dashv$	+	╁	+	+	Н	LB)	PLT			ALTO	
		7 Z	CALENDAR YEAR	JAN FEB																																(U/M=K/LB)	<u>с</u> ,		-		
1997		YEAR 02	S G	DEC JAN	$\dashv$	$\dashv$	$\dashv$				_		_						_	_		_		-		_	$\dashv$			$\dashv$	+	+	+	+		4		11	11		
1		FISCAL		NOV D	$\dashv$	+				Н														+			-		H	$\dashv$	+	$\dagger$	+	+	-	PACING COMPONENT	UALT				
FEBRUARY		FI		ocT																				$\Box$			$\Box$			1			Ţ			OMPC	ďΩ	9	9		
FEB	SAW			AUG SEP	$\dashv$	$\dashv$	_	_	_		_		-											$\dashv$		$\dashv$	-	-	$\dashv$	$\dashv$	$\dashv$	+	+	$+ \parallel$		MS C		INITIAL	REORDER		,,
DATE	) F/			JUL																							1			$\dashv$	$\dashv$	+	$\dagger$	$\dagger$	$\dashv$	PFAR		INI	REOF		FAGES
	(E LINKE		10	Y JUN		$\downarrow$																		_		_	$\Box$				1	1	L				Г	K1			OF 48 FAGES
	<u>A</u> TUF 355 I			APR MAY	$\dashv$	$\dashv$	$\dashv$		_	-		$\vdash$	_				_	-				-	-	+	$\dashv$	1	-	_	$\dashv$	$\dashv$	+	╁	╀	+		ы	TOTAL	ER 1	13	13	
	ENCL Ul M	01	YEAR	FEB MAR	ight d																										1					TIM	F	AFT		<u> </u>	39
	P-1 ITEM NOMENCLATURE CTG 5.56MM BALL M855 LINKED F/SAW	EAR	CALENDAR YEAR	JAN FEB	+	$\dashv$	-	Ц													Н		-	4	_	$\dashv$	-	_		$\dashv$	+	-	1	$\downarrow \downarrow$	4	LEAD TIME		PROD.	11	11	80.
21)	TEM .56M	IT XI	J	DEC 3																	-	Н	$\dashv$	+	7	_	1	1	-	$\dashv$	$\dagger$	$\dagger$	╁	H	$\dashv$	I L					PAGE NO.
	P-1 I CTG 5	ISCA		YON T	$\dashv$	$\downarrow$	$\downarrow$																			$\exists$				$\blacksquare$	1		L			REME	LEADT	<del>-</del>	~	7	
	۵.	Щ		SEP OCT	+	†	+		1		_	_							_					$\dashv$	-	$\dashv$	$\dashv$	$\dashv$	7	$\dashv$	+	$^{+}$	╁-	H	극	ROCU	ADMIN LEADTIME PRIOR AFTER	1 00.1	9	9	H
IIB.				NUG.	$\downarrow$	1				.01.1														$\Box$					0.10	1	1			П	다.	A			IAL	DER	E NO
(ЕХНІВІ			00	JUN JUL	+	$\dashv$	+	$\dashv$	-	701.	Н	_		-		20					_	Н	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-	.21.0	$\dashv$	+	+	+	H	77				INITIAL	REORDER	P-1 LINE NO.
			0	Ϋ́ΑΥ	1	1				.07.0						.50												$\dashv$	稿		1			11	쿼	L	<u></u>				4
SCHEDULE			AR	AR APR	+	+	+	4	$\dashv$	70.70	-				_	50.50		_			_		-	4	$\dashv$	$\dashv$	4		.21.21		4	$\perp$	-		. <u>2h.2h</u>	2 SH	ER D-DA				
HE	NOIL	8	CALENDAR YEAR	JAN FEB MAR	1	$\top$	1		$\dashv$	2						50	-				$\exists$		$\dashv$	7		_	1	_	1.21	1	$\dagger$	$\dagger$	t	+	桪	SHON	N A	9 0.		-	
	Y 1. AMMUNITION	YEA	CALE		-	4	1		$\dashv$	0.40						40.50						50.50					$\Box$		.41.4	$\Box$	1		l		.41.41	RATE	MAXIM	52.10	1.00		
IOI	₹	CAL		NOV DEC	+	+	$\dashv$	1	$\dashv$	30.50	-					50.4						50.5		$\dashv$		$\dashv$	$\dashv$	-	3	$\dashv$	844	$\dagger$	+	$\dashv \dashv$	m m	LON	8-5	15.08	0.83	1	
JCT			66	P.C.						30.30		_	_			50.						.50							1.3		汉				<u>=</u>	UCT	Σ	0 15	- 1	-	
PRODUCTION	CTIVITY ARMY/ACTIVITY	BAL	AS OF		66	00	7.60 0.00	0.00 0.00	9.80 0.00	0.00 8.20		0.00	0.00 0.00	0.00 0.00	0.00	4.40		00.00	0.00 0.00	0.00 0.00	0.00	2.00			0.00	0.00		0.00	14.6		PROP	0			14.61.31	PROL	MINIMUM 1-8-5 MAXIMUM AFTER D-DAY	0.00	0.70		
PF	VITY V/AC	ACCEP.	1 oc.		99	0.49	7.60	00.0	9.80	8		00.0	0.00	0.00	0.00	0.00		3.40	00.0	00.0	1.40	00.0			3.89	7.60	9.0	11.2	00.0			16.0	0.00		22.7		Ì				
	ARM	OTY !	1		99				Ĭ	8.20				Ŭ		.40				)	ĺ	2.00							4.6		COMPONENT:	1	T			MAN	יזייניאו	CITY AAP IND MO	اند		
	ET A	Ŏ ₩	<b>'</b>	$\rightarrow$	86	†	1	1	8	~					0.00	Ą					.40	7					$\dashv$	1.2	Ť			$\dagger$	$\dagger$			000	ION	AP II	KS FL		
	SUDG	PROGRAM			6	$\dagger$	1	8	٩					0.00	0					00.0	-=-1			1			0.00			1	PACING	$\dagger$	$\dagger$	T	CTION	LIE	CAT	TY A	ST MARKS		
	ON/I	PR				0.43		٥	1	$\dashv$		00.0	00.	P				1.40	00.0	٦					8.89	09.	٩	П	П	7	버	0	9 6		TOTAL MONTHLY PRODUCTION	NITE	& LOCATION	E CI			
	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/AC	លធា	<u>س:</u>	$\dashv$	Ť							MC D	ic p	υ L	MC	MC		AF B			AF	AF			ALL B	ALL 7	ALL	ALL	ALL	7	$\top$	E		4	-	×	7.3	LAKE	OLIN		
	SOPR SCURE	5	Σ	#			Y Y	Ψ	W W	W W		MM	M MC	M MC	M	M		₹ W	W	W	MA	M	Ħ		Ĥ			$\tilde{\exists}$	Ĥ	7	+					[	ا. ړ				
	APPF PR(	FAC	NO.	_	]		-			1						1		Ţ			1	1										,	م ر	7		្រ	NON NON	1	7		

-:	03	<	-ת		0.00	00.00								T		Τ	Т								Ţ-		$\top$		Ţ,					$\neg$
RECUIPEBERTS COLITION, STEINOU, DD-COMPONER, LARDON LOGE	E04603		Ē		0					$\perp$					-				+	-	+				+		-	+	-				ONG	2 2
Patrion Caro			JUL Aug	_		-	-		-	-	+	Н	$\dashv$	4	+	-			1	-													SNOTTITE NI	
(AR)		i	J. 1917								+		1	+	$\dagger$	+	$\vdash$	+	$\dashv$	+			+	+	+	$\vdash$	-	+	-		□			
OPMP			02	-		_	ļ.,							1					1												TOTAL	12	QUANTITY	
RE.			CALENDAR YEAR 02			+	<u> </u>		-	+	-	$\ \cdot\ $	$\dashv$	+	+	+	H	-	+	+	$\vdash$		+	+	$\vdash$	$\perp$	$\perp$	H	-				QUAN	
		EAR 02	CALENDAR YEAR						1	I						İ			1							$\perp$	-		-	Ξ				
1997		_	OBC CAL		H	+		H	+	+	+	H	$\dashv$	+	+	-		$\downarrow$	+	+	-			_		1					ALI.	11		
1 1		FISCAL	NO12							İ			$\perp$						$\dagger$	+	H	$\vdash$	$\perp$	+	H	+		$\vdash$	-	PACING COMPONENT	0AL1 6			
FEBRUARY			SEP OCT		$\vdash$	+			+	$\perp$	-		4	+	-	Ļ		-	$\perp$	$oldsymbol{\perp}$		1	1			1				COMPC		9		
DATE	F/SAW		AUG											$\dagger$	$\dagger$	-		+	+	+	H		+	+	H	+	H	$\dashv$	-     o		INITIAL	REORDER		S
Ĭ	LINKED 1		01 30N 30L		4	-	H		_	lacksquare		Ц	-		-			1	1				1						BEW.	DAY.	INI	REO		40 OF 48 PAGES
	LIN		MAY JUS			+	H	$\dashv$	+	╁		$\dashv$	+	+	╁			+	+	+-		+	+	+	H	+	+	+	$\frac{1}{2}$	П	SCT.			87
	1 TEM NOMENCLATURE 5.56MM BALL M855 LI	_ [	R APR	$\prod$	$\bot$	-				I			1		I			1					1			$\perp$				TIME	AFTER 1	13	13	OF
	BALL	R 01	CALENDAR YEAR JAN FEB MAR	H	+	+	H	1	+	$\dagger$	Н	$\dashv$	+	+	+	Н	+	+	+	+	_	+	+	+	H	-	H	+		L '			_	11
	EM NC	YEA	CALE DEC JAN	$\prod$	$\dashv$	I		7	1	L	П	1	1	1	L		1	1	T			1	1			土		$\pm$		LEAD	۳	11	11	PAGE NO.
1 1	"	SCAL	δğ			$\perp$	H	+	+	+	Н	+	+	+	╁	Н	+	+	╀	H	$\dashv$	+	+	-	+	+	H	+		MENT	ŽŽ.	2	2	PA
1 19	CI	-	SEP OCT	H	-			-	1				1	Ţ			1	1			1	1	1		$\downarrow$	1				PROCUREMENT ADMIN LEADTIME	₹ ₹	9	9	
(EXHIBIT			AUG	$\prod$	$\perp$	4.0		+	+		Н	$\dagger$	+	+	$\vdash$	H	+	+	+	H	$\dashv$	+	+	Н	+	+	H	-			<u> </u>	1]		NO.
EXH			JOE NE	4	+	.04	$\Box$	$\bot$	Ţ				1	ļ			1	1	L		1	1	Ţ		$\downarrow$			18				INITIAL	REORDER	P-1 LINE NO.
1 1		Ì	MAY JUN		+	5.05	$\exists$	+	+	H	+	╁	+	$\perp$		$\dashv$	+	+	┞	H	-	+	+	H	$\dashv$	+	$\mathbb{H}$	7				H	RE	P-1
SCHEDULE			R APR	-	-	9	$\bot$	1			$\exists$	1	1	L			1	1	1		1	1	Ţ							MAX D-DAY				
图	NOIL	00	JAN FEB MAR	+	+	19	+	+	$\dagger$	Н	1	+	╁	-	$\mathbb{H}$	$\dashv$	+	+	$\vdash$	H	+	+	-	H	_	-	$\vdash$	21.21		N TENS				
I I	7 1. AMMUNITION			$\perp$		53.05.05.05.05.05.05.05.05.0	1	1	L			1	ļ			1	1	Ţ	L		1	1	1		1	1		4.4		RATES MONTHS TO REACH MAX	52.10	1.00		
OI	1. A		OCT NOV DEC	+	+	9	+	+	$\vdash$	H	$\dashv$	+	+		Н	+	+	-	$\vdash$	H	$\dashv$	+	+	H	+	-	H	31.4		ON SE		0.83		
CONC	TY			-	5 0	09.0	1				1	1				1	1	Ţ			1	1						槚			0 15		Ц	
PRODUCTION TY	IVI	BAL DUE AS OF	T	99 99	00.00	23	1	_	L			1	_			1	_			Ц								14.61		PRODUC'I ION MINIMUM 1-8-5	0.00	0/.0		
PI ACTIVITY	ARMY/ACTIVITY	ACCEP. PRIOR TO	1 001	99	45.0		$\perp$		Ц																			22.7			li	$\top$		
	. 4	QTY	-	99		58.0																								NAM	QN W	ان		
)GET	ITION	PROGRAM QTY	$\overline{}$	8	45.0					$\prod$	$\int$	$oxed{\bot}$	L			$\int$												NATE V		URER	AAP 1	ST MAKKS FL		
1/BUI	MMON	PROG	FY	7 0	-		$\perp$	$\perp$	$\sqcup$	$\downarrow$	1	_				_	_		L		$\perp$					$oxed{oxed}$		TOTAL MONTHLY		FACT	ITY	T. MA		
TION	INT A		FY	70%			+	$\downarrow$	$ \cdot $	_	$\downarrow$	$\bot$	_	L		$\downarrow$	$\downarrow$	1		$\sqcup$	1	1		$\coprod$	_	$\perp$		TOTA		MANUFACTURER NAME	LAKE CITY AAP IND MO.	OLLIN		
APPROPRIATION/BUDGET	PROCUREMENT AMMUNITION,	NEW NEW	>	130 T		K TOT	1			4	$\downarrow$	$\downarrow$		Ц		$\downarrow$	$\perp$		Ц	$\perp$	$\perp$	$\perp$				Ц			-		Ĭ.	) 		
PPRO	PROCI	FAC U			2			1	$\prod$	1	T	T		П		1	1		П			1			1		1			FAC NO.	-1	7		
Æ		цž			Ш				Ш				L	لــا									<u> </u>	Ц			$\perp$							j

# BUDGET ITEM JUSTIFICATION SHEET

FEBRUARY 1997

DATE

APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITEM NOMENCLATURE	ENCLATURE					
PROCUREMENT AM	MUNITION,	ARMY/A	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITI	No	$\dashv$	TG 5.56MM 4	CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW	RACER	M856 F/SAW		(E04	(E04604)
	FY	96	FY 97		FY 98	8	FY 99	FY 0	00	FY 01	01 02 FY	FY	0.3
QUANTITY		-0-	17521		-0-		22007	24526		22867		22963/23032	3032
(Thousands)					,			0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ı		
COST (In Millions)	ស	.7	\$ 9.1	ళ	-0-	₩	11.0	\$ 12.5	O,	\$ 11.9	w	\$ 12.2/12.6	12.6

#### DESCRIPTION:

The M855 ball and M856 tracer rounds are linked for use in the lightweight, one-man operable M249 Squad Automatic plastic container which attaches directly to the M249 SAW. This item is Code A, approved for service use. This column and an improved pyrotechnic mixture, which results in an increased daylight trace range compared to the penetration substantially compared to the 5.56mm, M193 ball round. The tracer round M856 has a longer tracer 5.56mm M196 tracer round. The rounds are linked in a 200 round belt using the M27 link and are loaded into a The ball round has a steel, conical insert in the ogive of the bullet, which increases helmet item will be procured through the CAWCF at a fixed standard price. Weapon (SAW).

# JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Page of Pages **Exhibit P-40** 

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW

DATE: FEBRUARY 1997 NSN = 1305-01-252-0153 /1 TRACER M856 F/SAW (E04604)

PCN:P02QM1DOC4Z

				100000	COL VICTORIA			(100107)	
YTQ) 96 YT	) FY 97 (QTY		17521000)	FY 98 (QTY		_	FY 99 (QTY	2200	22007313)
OF COST UNIT	TOTAL QTY	UNIT	TOTAL	ŶŢŶ	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP)	17521000	0.40	19902				22007313	39	8490
Z.PROPELLANT WC844T (LB) 3 DBODETI ANT	14017	5.83	82				17606	69.9	118
WC844 (LB)	57820 17959025	5.83	337				70424 22447460	6.69	471
SUBTOTAL			7754						9463
PRODUCTION SUPPORT									
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.TESTIANCE TESTION	·· <del>-</del> · -· -·		284! 111!						967 24 109
4.INTEKIM TRANSPORTATION 5.CAWCF GAIN/LOSS SURCHARGE 6.INDUSTRIAL STOCK SUPPORT	<b>-•</b> •		74! 903!						33 68
SUBTOTAL			1357						1503
NONRECURRING			. <u>! _</u>						
1.MATERIEL CHANGE	700								
SUBTOTAL	700								
**************************************	*****	0.52	******** 9111!	*****	* * * * * *	*	*******	0.50	10966

P-1 ITEM NO. 1 PAGE NO. 42 of 48

PCN PO2QM1DOD4Z

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	3Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-0	1305-01-252-0153	153	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CTG 5.	CTG 5.56MM 4 BALL M855/1	M855/1 TRACE	TRACER M856 F/SAW	; ! ! ! ! !	(E04604)	04)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)		 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1995 OLIN CORP TNDEPENDENCE MO	SS/CPAF	IOC	DEC 94	FEB 96	18448735	.37			
FY 1997 OLIN TORP TABLETICE, TO THE TABLETICE MO	SS/CPAF	IOC	JAN 97	OCT 97	17521000	0.40	YES	NO	
FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	22007313	0.39			
2. PROPELLANT WC844T (LB) **									
FY 1995 OLIN	SS/FP	IOC	JUN 95	JAN 96	14759	6.28			
FY 1997 OLIN MADES ET	SS/FP	IOC	AUG 97	SEP 97	14017	5.83	YES	NO	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	17606	69.9			
REMARKS:					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ! !

\*\* PACING COMPONENT

P-1 ITEM NO. 1 PAGE NO. 43 of 48

	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	PROCUREMENT HISTORY & PLANNING	r HISTORY	& PLANNING		DATE:	: FEBRUARY 1997	YY 1997	
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITI	TIVITY 1. AMMUNI	TION	P-1 IT	P-1 ITEM NOMENCLATURE CTG 5.56MM 4 RALL MRS	P-1 ITEM NOMENCLATURE  CTG 5.56MM 4 RAII. M855/1 REPART M975/1 NOVER NOT NOT NOT NOT NOT NOT NOT NOT NOT NOT	NSN = 1305-01-252-0153	)1-252-01		! ! !
LINE ITEM/	CONTRACT			DATE OF		MONTO CANA	SPECS	(E04604)	14)  TE VEG
FISCAL YEAR CONTRACTOR	& TYPE	CONTRACTED BY	AWARD DATE	FIRST DELIVERY	QUANTITY	UNIT COST	AVAIL NOW	REV REQD	WHEN AVAIL
3. FROFELLANT WC844 (LB)	! !				; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1995 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 95	JAN 96	60881	6.28			
FY 1997 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 97	SEP 97	57820	5.83	YES	S	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	70424	69.9		}	
4. LINK M27									
FY 1995 VALENTEC WELLS COSTA MESA, CA	C/FP	IOC	DEC 94	JUL 95	19186685	0.02			
FY 1997 TBS FY 1999 TBS	C/FP C/FP	IOC	MAR 97 JAN 99	JUL 97 JUL 99	17959025 22447460	0.02	YES	NO	
REMARKS:							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TBS - To Be Selected

P-1 ITEM NO. 1 PAGE NO. 44 of 48

П	4			.1K	000	00	0	T	T	T		Т		T	Τ	Τ				T	T		Τ			T	<del></del>	П								
MROL.	E04604	٦,٥	1 1		00.0	0.00	.087.0		- -	<u> </u>	$  \cdot  $	4	4	$\perp$	_	-	Н	4	$\perp$	4	_	1	-	<u> </u>	$\square$	_	1	$\sqcup$	$\perp$	23.7					Ş	2
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E0	!		AUG SEP	+	$\vdash$	∞ ∞	+	- -	-	H	+	+	+	+	+	Н	-	$\dashv$	+	+	+	+	Н	$\dashv$	_	+	$\vdash \vdash$	+	+	$\  \cdot \ $				OUANTITY IN MILITIONS	7
NVTRC 092				JULAU		$\vdash$	H	+	+	-	Н	$\dashv$	+	+	╀	╁		$\dashv$	$\dashv$	+	$\dashv$	+-	╁			+	$\vdash$	-	+	+	-				X	
rs cc	,			15 X 25 E	+	-	H	+	+	$\vdash$	$\vdash$	+	+		╁	+	Н	+	+	+	+	+-	+	Н	+	-	+	+	+	+			,		Z	
EMEN P (A)			99		+		H	$\dashv$	+	H		$\dashv$	+	+	+	+	Н	$\dashv$	+	+	+	╁	$\vdash$	H	$\dashv$	+	+	+	+	+	$\ \cdot\ $	TOTAL	<u> </u>	. 01	À.	
SQUIR -COM			9	APR X	$\dagger$		H	$\dagger$	╁	$\vdash$	H	$\dashv$	_	+	t	+-	Н	$\dashv$	$\dashv$	+	+	$\dagger$	-	H	+	+	H	+	+	+	1	Ë	-	12	MT	
A II			EAR	$\overline{}$	1		H		+	T	H	7	$\top$		$\dagger$	$\dagger$	Н	$\top$	$\top$	$\dagger$	$\dagger$	$\dagger$		Н	$\dashv$	+	H	$\dashv$	+	+	[] [	7 LB)	i		OUZ	$\{ \   \ $
		~	CALENDAR YEAR	JAN FEB								7			$\dagger$	T				1	T	$\dagger$	T	$\dashv$	1	T	$\dagger \dagger$	十	$\top$	T		<u>-</u>		-		
		YEAR 99	S TE	JAN																									$\top$			ALT	11	11		
1997		1		Dac	_	_	Ц	$\perp$	$oldsymbol{\downarrow}$	L	Ц			$\perp$	_				$\perp$							I					Ę					
RY	TRACER M856 F/SAW	FISCAL		NOV	_		$\sqcup$	_	_	-	Ц	_	_	$\bot$	$\downarrow$			4	_	1	$\bot$	$\perp$	Ц		_	$\bot$	Ш		$\perp$	2.02.01.82.02.01.52.52.02.02.02.02.02.0	PEMARKS COMPONENT	UALT	9			
FEBRUARY	356	[1,	4	150	+	2.02.0		+	+	┞-	$  \cdot  $	_		+	╀	-	Н	$\dashv$	$\perp$	4	+	_	$\sqcup$	$\dashv$	$\downarrow$	<b>-</b>	Ц	$\perp$	1.	.50	Į,	7	Ψ	<b>w</b>		
FEI	R MS			AUG SEP	-		Н	+	+	┾	$\vdash$	$\dashv$	+	+	╀	┼-	$\dashv$	$\dashv$	+	╁	+	╀		$\dashv$	- -	+	H	_ -	+	8	SZ	)	IAL	DER		
DATE I	ACE			JUL	8	-	Н	$\dashv$	+	+	Н	+	+	+-	╁	$\vdash$	$\vdash$	+	╁	+	┿	+-	Н	$\dashv$	+	+	H	+	+	8	A WA B	;	INITIAL	REORDER		0457
		1	86		8		H	+	-	+	Н	+	+	+	╁	$\vdash$	+	$\dashv$	+	+	+	+	H	+	+-	+	$\vdash$	+	+	8	<u> 220</u>		_	<u>~</u>		ã
	CTG 5.56MM 4 BALL M855/1		6	MAY JUN	.08.08.08.08.08.08.08.08.08		H	+	$\dagger$		Н	十	$\dagger$	+	$\dagger$		$\dashv$	$\dashv$	$\dashv$	+	╁	+	H	-	+	+	$\vdash$	+	╁	8			8			46 OF 48 PAGES
	ATC M8			APR	9.0		$\Box$	$\top$	T	Γ	П	$\top$	T	T	T		$\dashv$	十	_	Ť	+	T	H	$\dashv$	$\dagger$	<del> </del>	H	+	$\dagger$	125	Ŀ	1 2	AFTER 1	13	13	0
	NCL	8	ă	Z,	0																	T	П	7			П	$\top$	1	-52	T L	Ľ	AFT			977
	ITEM NOMENCLATURE 5.56MM 4 BALL M855/	1R	CALENDAR YEAR	JAN FEB MAR	°			$\perp$							L					I									T	9.5	4	ADMIN LEADTIME	ė	_		g.
	M W W W	ΥΕ	ह		8	$\sqcup$	Ш	4	_		Н	4	4	$\perp$	$oldsymbol{\perp}$		_	4	$\perp$	1	$\bot$	$oldsymbol{\perp}$	Ц	4	$\perp$	$\perp$	Ц		_	0.2	17	L	Ä	11	11	PAGE NO.
21)	1.TE	CAL		NOV DEC	8	$\vdash$	H	+	+	$\vdash$	$\vdash$	+	+	+	╀	H	$\dashv$	+	+	+	+	╀	Н	4	+	-	$\sqcup$	_	╀-	8	I NO	TIME.	į	7	2	ā
	- 원	JIS(		t o	8	Н	$\vdash$	+	╁	Н	$\dashv$	╅	+	╁	╁		$\dashv$	+	+	╁	╁	╁	Н	$\dashv$	+	+-	$\vdash$	+	╀	8	REN		-			-
			1	SEP	8.08	Н		$\dagger$	$\dagger$	Н	$\dashv$	+	+	$\dagger$	+	Н	$\dashv$	$\dagger$	+	+	+	+	$\vdash$	$\dashv$	+	╁	Н	╁	╁	اما		NIMO	Į.	9	9	1
(EXHIBIT				AUG		П		T		П	7	$\top$	十	T	T	П	T	1	$\dagger$	$\dagger$	T		П	ヿ	╁		H	$\dagger$	十	Н	ă	1	<u></u>	AL.	ER	P-1 LINE NO.
틸				JUL													1	1				T	П	1	1	T	$\Box$		T	Н				INITIAL	REORDER	LINE
田	1		97	JUN		Ц			_	Ц																					ĺ			N	RE	1
回	ĺ			XXX	$\perp$	Ш	1	4	1_	Ц		4	$\bot$	$\downarrow$	L	Ш	4	4	_	$\perp$	╀	L	Ц	_	$\downarrow$	$\perp$	Ц			Ц		<u>-</u>				
SCHEDULE	İ		~	R APR	$\mathbb{H}$	$\square$	4	+	-	$\sqcup$	-	+	4	┿	╀	Н	4	4	_	1	$\bot$	╀	Н	_	4	_	Ц	_	1		RS 70	X D-D				1
買	S	97	CALENDAR YEAR	FEB MAR	+	Н	$\dashv$	+	+	$\vdash$	$\dashv$	+	+	┼-	╀	Н	$\dashv$	+	_	╀	+	┼	Н	$\dashv$	+	+-	H	$\perp$	╀	.02.01.52.02.02.1	HONT	AFFE	0	의	Ш	-
SCI	/ 1. AMMUNITION	SAR	(LEND	JAN FI	H	$\dashv$	+	-	+	Н	+	╁	+	╁	╁	Н	$\dashv$	+	+	╁	+	╀	Н	$\dashv$	+	╁	H	+	╁╴	8	2.4T	MUM	39.30	1.00		
1	DE SE	X	0	DEC	Н	$\forall$	$\dashv$	+	+	Н	$\dashv$	+	+	$\dagger$	H	Н	+	+	+	+	+	╁	Н	$\dashv$	+	+	$\vdash$	+	╁╴	5	ΡΔ	XAX	3	ŀ		
OI	4	SCAL	١	NON	П		7	$\dagger$	T	Н	$\top$	十	$\top$	T	T	Н	1	$\dagger$	$\dagger$	T	$\dagger$	T	H	$\dashv$	$\dagger$	+	H	+	$\dagger$	링	NO	- 2	11.50	0.83		
L.		7. S.	96	ğ	П		T	1		П	寸	┪	┪	1	T	П	寸	十	1	T	1	T	П	1	T	T		1	T	흲	<u> </u>	Ľ	듸	- 1	$\coprod$	
PRODUCTION	N.	-3 12	AS OF	96	96.0	4.00	95.0		Τ			T	T	T	Γ				T	T			П	1		Τ	П		1	13.3 59.1	luc	MINIMUM 1-8-5 MAXIMUM AFFER D-DAY	0.00	0.70		
P.RC	: 밝				0	0	<u> </u>	+	+	Н	$\dashv$	╁	╁	╁	$\vdash$	Н	$\dashv$	+	+	╁	╁	╫	Н	$\dashv$	+	+	Н	+	╁	3 5		SUS				
I		ACCEP.	2 <u>5</u>	9	0.00		0.00			Ц			$\perp$	L		Ш	ightharpoonup	$\perp$					Ц				Ц			13.		뇓	او			
TH.		ŢŢ		Z e			95.0										ı															NA.	Ę.	ij		
E	S	Ŏ <del>Z</del>	'	_	╅┈┪	4.00	٦	+	+	H	$\dashv$	+	+	$\dagger$		Н	$\dashv$	+	$\dagger$	$\dagger$	十	╁	Н	$\dashv$	+	+	H	+	╁┈			N N	P II	MARKS FL		1
70		RAI				귝	+	+	$\vdash$	Н	4	+	+	╀	╂-	Н	+	+	╀	╀	+	╀	Н	+	+	+	H	+	╀	ENO.		ATI	¥	MAR		
		PROGRAM OTY		FY 6	96.0			$\perp$	$oxed{oxed}$	Ц	$\downarrow$	1	1	$\perp$	L	Ц	$\perp$	$\perp$	$\perp$	$\downarrow$	$\perp$		Ц	$\perp$	$\perp$	1	Ц	$\perp$	1	PRODUCTION		뛼	TI	ST.		
Z	I A		_	FY 96p		_ [																								Figure		MANUFACTURER NAME & LOCATION	LAKE CITY AAP IND MO.	IN		
T-1		ΩH	<u>~:</u>	>	ToT	ΙΩΙ	TOI			П			T	Π		П		T		T	T		П			T						Ē	E	OLIN		
PI	PROCUREMENT AMMUNITION, ARMY/ACTIVITY		Σ	$\pm$	Σ E		E Z	$\pm$	$\vdash$	$\boxminus$	$\pm$	+	$\pm$	$\pm$	L	H	$\pm$	$\pm$	+	+	+	$\vdash$	${f \parallel}$	$\downarrow$	$\pm$	$\pm$		+	+					1	$\prod$	
Jaak	PRO F	Ŋ	NO.		2	7	7																									NO NO	-1	7		
	¢	<u> </u>	ž		Ш					Ц		L			L	Ш						<u></u>	Ш	$\perp$		1	$\Box$									┙

	P			0000	E HIGHIOS MOTHOLIGORD	H-GIIIIG)			DATE		REQUIREMENTS CO	ITTROL SYMBOL	Γ
Appb	TOD IN	A BEBORE TAUTON / BIIDGETT	1.3 	THY VIET	- 1	(EARLBIT	7 .		FEBRUARY	ARY 1997	DD-COMP (AR) 1092	92	
PROC	UREMEN	PROCUREMENT AMMUNITION,	۲ ـ ۲	ARMY/ACTIVITY	Y 1. AMMUNITION		P-1 ITEM NOMENCLATURE CTG 5.56MM 4 BALL M855/		TRACER M856 F/SAW	F/SAW		E04604	7(
Ω C		DROGRAM OTTV		ACCEP. BAL PRIOR DUE	FISCAL YEAR			i .	ĬΨ	FISCAL YEAR			
NO.	1α; ΣΣ	TANDON I	1		99 CALENDAR YEAR	00	CALENDAR YEAR	ur 01		U.Z. CALENDAR YEAR	YEAR 02		ا ہے۔
	>	FY	FY	$\neg$	OCT NOV DEC JAN FEB MAR APR MAY	Y JUN JUL AUG SEP	OCT NOV DEC	APR MAY JUN	JUL AUG SEP OCT	NOV DEC	APR	L AUG SEP R	.1cc
,	,	10 0	22	0									
		500	1 0	00.00		-			1			0.0	0.00
-	K A	0 81		18 0 0 00								0 0	000
1		പറ	00	0.00 0.00									00.00
1			22.0	0.00 22.0	1.01.02.02.02.02.02.02	.02.02.02.02.0						0.0	0.00
		-	1										
			<u> </u>	0.57 0.00								0.0	0.00
		00.0		0.00 0.00								0.0	00.0
		2.30		2.30 0.00					_			0.0	0.00
				0.00 0.00					-			0.0	0.00
	MSOF		0:00	0.00 0.00								0.0	0.00
			+	+									
		4.20	4	4.20 0.00								0.0	0.00
_		1.10		.10 0.00								0.0	0.00
	MAF	3.50		3.50 0.00								0.00	00
		1	4	00 00 00								0.00	00
	MAF	+	1.70 0.	0.00 1.70	. 0. 70							0.0	0.00
	1		+	$\frac{1}{1}$				+	#				
	Ĭ.	الحا	77	22.8 0.00								0.00	00
	ALL	1.1		10 0.00					+			00.00	00
	ALL	73.8		23.8 0.00					+			0.00	00
	ALL		4	00 00 00								0.00	00
	AEE	+	23.7	0.00 23.72	.01.72.02.02.02.02.0	2.02.02.02.02.0						00.00	00
	1			_					+	1			
	_	PACING	PACING COMPONENT:	_	PROPELLANT WC8441								
^	X TOT	91.0	15	91 0 0									0
~			4									0.00	3
,				7 23 7	00 00 00 00 00 00 00 00 00 00 00 00 00	20 20 20						0.00	3
									MARKS	7 1			<b>T</b> _
FAC		MANUFACTURER	ER NAME		PRODUCTION RATES REACH MAX HINIHOM	PROC	PROCUREMENT LEAD TIME		PACING COMPONENT	(U/M=K			,
-	+	TAKE CITY AND THE MO	D TMT O	Т	11 50 39 30 0	PRIC	T 1 OCT PROD. A	AL OCT	TNITTAL	ALT ALT	<u>:</u>		
1 ~	티딩	OLIN ST. MARKS FL	KS FL.	+	0.83		6 2 11				1 12		
						9 ИЯПИСЯ В	6 2 11	13			QUANTITY IN MILLIONS	MILLIONS	
						P-1 LINE NO.	I PAGE NO. 47	7 OF 48 PAGES	GES				$\Box$
									) 1			i	

,	70		- <del>-</del> -	디뜨	[	00.00	000						Ţ		T		T			Π					Т	Ţ	Τ		Π	T	Τ	00	Γ_	_			
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E04604		T	SEP	-   9	عاد		-	-			$\dashv$	$\dashv$	+	+	+	+	+	$\vdash$	$\vdash$	-			$\dashv$	+	+	+	Н		+	+	0.00					NG
rrol,		1		AUG								1		1	1	T	$\dagger$		T				1	$\dashv$	+	+	$\dagger$			+	$\dagger$	+					1.1.7
1092				JUL				L						1			I														+						TM 7
MENTS (AR)				Y JUN	-			-	╀	Н	-	$\dashv$	4	1	$\perp$	_	oppi	_					$\downarrow$		_	_	_								'AL		Ϋ́
QUIRE -COMP			50	PR MA	+	+-	+	╁	╁		$\dashv$	$\dashv$	$\dashv$	+	+	+	$\vdash$	-	-			-	+	4	+	+	-	H	$\dashv$	+	$\perp$	$\sqcup$		i	TOTAL	12	QUANTITY IN MILLIONS
A G	-	-	YEAR	MAR	Ħ	T	+	$\dagger$		Н		$\dagger$	$\dagger$	+	$\dagger$	+	$\dagger$	<del> -</del>		H			+	+	+	+	$\vdash$		+	+	╀	H		<u>@</u> !	PL'I'		QUA
		J.R	CALENDAR YEAR	JAN FEB MAR AFR MAY			I																							T	$\dagger$	H		χ. 11		Н	
97		YEAR	15		+	+	+	+	<u> </u>	Н		-	+	$\downarrow$	$\downarrow$	$\downarrow$	$\perp$	-	L	Ц	4	4	$\downarrow$	$\downarrow$	$\downarrow$	$\perp$			$\perp$	I		П	ł		11. 11.	11	
FEBRUARY 1997	TRACER M856 F/SAW	FISCAL		SEP OCT NOV DEC	+	+	+	╁	-	H	$\dashv$	$\dashv$	+	╁	+	╁	H			Н	$\dashv$	$\dashv$	+	+	+	+	Н	$\dashv$	+	+	┝	Н		PACING COMPONENT	7		1
NAR	<u> </u>	FIS		OCT				T						$\dagger$	$\dagger$	T	T				┪	$\dagger$	$\dagger$	+	$\dagger$	+	Н	$\dashv$	+	+		Н		MPONEN	9	9	
FEBF	M85					$\downarrow$	1			Ц		1	1			L																	S	ပ္ပ	A.L.	<b>H</b>	
DATE	ACER			JUL AUG	+	$\downarrow$	╁	╀	Н	$\sqcup$	$\dashv$	+	+	$\downarrow$	-	+	L	L		$\dashv$	$\downarrow$	4	1	+	+	$oldsymbol{\perp}$		1	1				MABK	ACIÑ	INITIAL	REORDER	
			2		+	+	╁	$\vdash$	Н	$\dashv$	+	+	+	+	H	╁	-	Н		+	$\dashv$	+	+	+	+	╀	H	+	+	╀	Н	4	H	<u>a:</u>	Ħ	<u> </u>	
	P-1 ITEM NOMENCLATURE CTG 5.56MM 4 BALL M855/1			JAN FEB HAR APR HAY JUN		I															+	$\dagger$	$\dagger$	$\dagger$	$\dagger$	$\dagger$	Н	$\dagger$	$\dagger$	+		$\dashv$	-		8		
	LAT L M		 	R APR	4	$\downarrow$	╀	L	Ш	$\Box$	$\downarrow$	_		Ļ	L	_						1		I	1									M E	AFTER 1	13	13
	MENC	5	CALENDAR YEAR	¥3.	+	╁	╁	┝	Н	$\dashv$	+	+	╀	+	├	$\vdash$	$\vdash$	$\vdash$	$\dashv$	+	$\dashv$	+	+	+	╀			+	$\downarrow$	$\sqcup$		4		- 1	4		H
	NO V	YEAF	CALEN		土					1	T	$\dagger$	$\dagger$	$\dagger$	T	┢			1	+	$\dagger$	+	$\dagger$	+	$\dagger$		$\dashv$	+	+	H	$\dashv$	-		PEAD		11	=
-21)	ITEM NOMENCLATURE 5.56MM 4 BALL M855/	AL	l	240	$\bot$	L	1			$\downarrow$	$\perp$	Ţ		L											I				İ				Ę	ADMIN LEADTIME	#E		$\dashv$
1 '.' 1	P-1 CTG	FISC		OCT NOV	╁	╀	╁		Н	$\dashv$	+	+	+	╀	┞				4	4	4	+	$\downarrow$	╁	<u> </u>	Н	_	_	$\perp$	$\sqcup$				EAD	1 O	2	2
	-			SEP	$\top$	T				$\dagger$	+	$\dagger$	$\dagger$	$\dagger$	-			1	$\dashv$	$\dagger$	$\dagger$	+	+	+	+	$\vdash$	$\dashv$	╁	+	H	-	ᇹ			S.P.	9	9
(EXHIBIT				AUG	$\perp$		0.70						Ţ	L						1		I										2.02.0	1	7.		AL	開
EXI				JUC NO	╀	├	8.08.08.07	$\vdash$	$\dashv$	+	+	+	+	L	-	Н	Н	4	4	4	$\downarrow$	$\downarrow$	$\downarrow$	1	-	Н	4	_		Ц	$\downarrow$	8 8 8				INITIAL	REORDER
<u> </u>			8	NAY JUN	$\dagger$	$\vdash$	8		$\dagger$	$\dashv$	+	+	$\dagger$	┢	┝	Н		$\dashv$	$\dashv$	+	+	╁	+	╁	╁	Н	+	╁	╁	H	+	쥥	L			<del></del>	₩.
G	1			APR					1	1	1	I									Ī			İ	İ			$\perp$				. 02 . 02	٤	P-DAY			$\prod$
SCHEDUL	S	00	CALENDAR YEAR	FEB MAR	╀	-	.08.08.08.08.0	4	$\dashv$	4	+	+	╀	┞		Н	4	+	$\downarrow$	$\downarrow$	4	+	$\downarrow$	-	L	Ш	$\bot$	_	L	П	$\exists$	0. 8	MONTH	FRODOCITON KALES REACH NX MINITUM 1-8-5 MAXIMIM AFTER D-DAY	0	0	
SCI	1. AMMUNITION	EAR	CALEND	JAN	+	H	8	$\dashv$	$\dashv$	+	+	$\dagger$	╁	$\vdash$		Н		$\dashv$	$\dashv$	+	+	+	+	╁	├-	Н	$\dashv$	+	╁	+	$\dashv$	72.02.02.02	0	IM IN	39.30	1.00	$\prod$
Z	AMM	NL Y	ŭ	DEC			9			1										$\perp$	$\perp$	$\perp$		T		H	$\dashv$	$\dagger$	$\dagger$	H	+	8	6	Y X	3		Ш
ij		ISC	66	OCT NOW	+		8.08.08	-	$\downarrow$	4	$\perp$	$\downarrow$	╀				4	4		-	$\downarrow$	_		L	ļ.,	Ц	$\downarrow$	I	Ţ				T L	1-8-5	11.50	0.83	
ă	H		<b>.</b>		8	00	87.08.	┪	+	+	+	╁	+			$\dashv$	$\dashv$	+	$\dashv$	+	+	+	╀	+	$\vdash$	$ \cdot $	$\dashv$	+	+	$\mathbb{H}$	$\dashv$	23.72.0			0.00	<u>.</u>	H
PRODUCTION			1 0 OF		96.0 0.00	4.00 0.00	0 87	$\dashv$	+	+	+	$\perp$	╀				4	4	+	$\downarrow$	$\downarrow$	╀	$\downarrow$	$\downarrow$			4	4	$\downarrow$				9		0	<u>•</u>	
PI	ARMY/ACTIVITY	ACCEP.	or 1	9	96	4.0	_	_		1			L																			48.7					П
ш Д	: I	ζŢΥ		F.			95.0	1									İ	İ	۱	Ì	ı						Ţ					7		NAM	E E		
<u>1</u>	N N	PROGRAM QTY	Ī	FY op	,	4.00		1			T	T					1	1	1	T	T	1	1				1	T	T	$\Box$				ION	AP I	MARKS FL	$  \  $
GIII	NE S	OGR	t	FY 07	96.0					1		T					T	1	1	T	1	T	1	T			十	T	T		- 10	TION	ļį	CAT	ĭ. A		
NO	AM.	P	-	FY				1		$\dagger$	1	T	T	П	7	1	1	†	+	$\dagger$	T	T	T	T	П	$\forall$	$\dagger$	$\dagger$	$\dagger$	H		PRODUCTION		MANUFACTURER NAME & LOCATION	LAKE CITY AAP IND MO.	SI.	
TATT	PROCUREMENT AMMUNITION,	លធា	<del>ا</del> د د≿	$\dashv$	ToT	ğ	Į.	十	+	$\dagger$	$\dagger$	T	T	H	1	1	†	$\dagger$	$\dagger$	$\dagger$	†	†	T	T	Н	+	$\dagger$	$\dagger$	$\vdash$	$  \cdot  $	┪	<b>-</b> Δι		Ψ W	LAK	OLIN	
OPRI	計	5		+	×	포	X	$\pm$	$\downarrow$	${\downarrow}$	$\downarrow$	F	L	Н	4	$\dashv$	#	+	+	+	+	$\pm$	$\vdash$	$\vdash$	Н	$\dashv$	$\downarrow$	+	$\vdash$		$\exists$				$\forall$	$\dagger$	H
A P P R O P R T A T T ON / B I I D G E T	PRO	FAC	<u>.</u>		7	7	7																											rAC NO		7	
		<u>р</u> ц.	4		L							Ц.,		Ш							上						Ц.		<u></u>	Щ							

QUANTITY IN MILLIONS

P-1 LINE NO. 1 PAGE NO. 48 OF 48 PAGES

BUDGET ITEM JUSTIFICATION RECORD	JUSTIFICA'	TION RECOR	Q		DATE:	Februa	February 1997	
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY	TIVITY: TION, ARMY/A	1 - 1	AMMUNITION	P-1 ITEM NOMENCLATURE: M995 CTG 5.5	ENCLATURE: M995 CTG 5.56	ENCLATURE: M995 CTG 5.56mm ARMOR PIERCING	ERCING	(F47600)
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY (THOUSANDS)	966	1438	1406	1375	1344	1344	1344	1344
COST (IN MILLIONS)	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0

DESCRIPTION: The M995 5.56mm Armor Piercing cartridge is designed for use in the M249 SAW Machine Gun, the M16A2 Rifle and the M4 Carbine. consists of a dense metal penetrator (tungsten carbide) which is enclosed by a standard gilding metal jacket. An aluminum cup sits at at the rear of the cartridge primer is used in the case to initiate the propelling charge. This item is code "A" approved SMCA and will be procured as actual cost in FY98. enhances the armor piercing capability of the cartridge. The cartridge utilizes a conventional brass case and double base propellant. A standard rifle projectile for the purpose of properly locating the penetrator within the projectile. The penetrator is similar to components used in other small caliber cartridges currently used by the US Army, but tungsten has better penetration capabilities than the other materials and is the design feature which The cartridge consists of a projectile and a propelling charge contained in a brass cartridge case to which the projectile is secured. The projectile

# JUSTIFICATION:

The FY98/FY99 procurements are intended for use against current and future light armored targets. The M995 5.56mm Armor Piercing cartridge offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition. The FY98 & FY99 buy builds a war inventory in accordance with the Army's procurement goals.

Acquisition Manager: Product Manager Small Arms

WEAPON SYSTEM COST ANALYSIS	(LYSIS		A. Appropriation/Budget		B. WEAPON MODEL/SERIES	ELSERIES	C. MANUFACTURER NAME		D. DATE
EXHIBIT (P-5)			Activity Title/No. Procurement Ammunition,		M995 CTG 5.56mm Armor Piercing	Armor Piercing	BOFORS/LAKE CITY ARMY AMMUNITION PLANT	SITY ARMY ANT	February 1997
			Army/Activity 1.			(F47600)			
Weapon System	Ident.	FY96	1,056,250	FY97	1,437,500	FY98	1,406,250	FY99	1,375,000
Cost Elements	epoo	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
HARDWARE 1. M995 5.56mm ARMOR PIERCING		1.18	266	1.24	1427	127	1428	1.30	1426
2. M27 LINKS		0.02		0.02	31	0.02		0.02	31
3. M856 5.56mm TRACER		0.37	<i>11</i>	0.39	112	0.40	7	0.41	112
4. Propellent		0.03	9	0.03	9	0.03	9	0.03	942
		2		5	747	-		<u>.</u>	2 <b>+</b> C
SUBTOTAL		1.76	1271	1.85	1821	1.89	1822	1.93	1820
PRODUCTION SUPPORT  1. PRODUCTION ENGINEERING  2. QUALITY ASSURANCE			351 28		152		131		137
SUBTOTAL			379		177		154		159
NONRECURRING COST 1. LIVE FIRE TESTING			20					ш. т	
A. HALLAL TACOLOGY I FOU									
SUBTOTAL									
TOTAL		2.39	1945	1.39	1998	1.41	1976	1.44	1979
							Exhibit P-5	Exhibit P-5 Weapon System Cost Analysis	1 0 0 V 100 O

Exhibit P-5 Weapon System Cost Analysis
Page 2 of 5 Pages

	BUDGET P	ROCURE	GET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	TORY A	ND PLAN	INING EXI	HIBIT (P-5		A. DATE Febru	TE February 1997
B. APPROPRI	B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	AMMUNITIO	_			C. P-1 ITEM I M995 CTG 5.5	C. P-1 ITEM NOMENCLATURE M995 CTG 5.56mm ARMOR PIERCING	JRE		(F47600)
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Load, Assemble & Pack FY96 Lake Ci	e & Pack Lake City Army Ammunition Plant	SS/CPAF	201	96 unf	Jun 97	825,000	0.16			
FY96	Lake City Army Ammunition Plant	SS/CPAF	<u>00</u>	Jun 97	Jun 98	231,250	0.16			
FY97	Lake City Army Ammunition Plant	SS/CPAF	201	Jun 97	Jun 98	1,437,500	0.17			
FY98 FY99	Lake City Army Ammunition Plant Lake City Army Ammunition Plant	SS/CPAF SS/CPAF	2 0	Oct 98	Aug 98 Apr 99	1,375,000	0.17		,	
M995 C 1 G 5.56	Maga C1G 5.30mm Almor Preicing	CC/EED	ARDEC	Mar 96	Anr 07	000 099	1,38	\ \ \		an oe
F 496	BOLONS, Sweden	SS/FFP	ARDEC	76 unf	Mar 98	185,000	. 62	3		
EY97	BOFORS, Sweden	SS/FFP	ARDEC	Jun 97	Mar 98	1,150,000	1.24			
FY98	BOFORS, Sweden	SS/FFP	ARDEC	Jan 98	36 Inf	1,125,000	1.27			
FY99	BOFORS, Sweden	SS/FFP	ARDEC	Jan 99	96 Inc	1,100,000	1.30			
M27 Links										
FY96	100	C/FP	200	Sep 96	Oct 96	841,500	0.02	Yes		Jan 96
FY96	100	C/FP	10C	Jun 97	Dec 97	235,875	0.02			
FY97	100	C/FP	100	Jun 97	Dec 97	1,466,250	0.02			
FY98	100	C/FP	0C	Jan 98	Jul 98	1,434,375	0.02			
FY99	100	C/FP	၁၀	Jan 99	Mar 99	1,402,500	0.02			
  M856 5.56mm Tracer	Tracer									
FY96	Lake City Army Ammunition Plant	SS/CPAF	100	96 unf	Oct 96	165,000	0.37	Yes		Jan 96
FY96	Lake City Army Ammunition Plant	SS/CPAF	<u> </u>	Jun 97	Dec 97	46,250	0.37			
FY97	Lake City Army Ammunition Plant	SS/CPAF	10C	Jun 97	Dec 97	287,500	0.39			
FY98	Lake City Army Ammunition Plant	SS/CPAF	00	Jan 98	Jul 98	281,250	0.40			
FY99	Lake City Army Ammunition Plant	SS/CPAF	ည	Jan 98	Oct 99	275,000	0.41			
D. REMARKS										

DD Form 2446-1, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST ITEM NO. 2

Page 3 of 5 Pages

ExhibitP-5A Procurement History and Planning

EV 98/99 BIINGET BEONILICTION SCUEDIII E		F	202								١.									L				l					ſ
		2		EDOLE		-	1 1		N.C.	P-1 (IEM NOMENCLATURE	ш	_	M995 CTG 5.56mm ARMOR PIERCING	CTG 5	.56m	л ARľ	JOR	PIERC	NG ING	Date	<b>Q</b>								
							SURE		AMMC	OE N	I. ARM	IY/AC1	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	1. AMM	Ĭ NO	NO	Ē,	(F47600)	_			_	February 1997	ary 19	26(				
					BALANCE					FISCAL YEAR	IL YE	AR		97			$\vdash$			-	FISC	SAL	FISCAL YEAR		86				_
ITEM/MANUFACTURER/		ш	PROC	~	DUE		CY 1996	9					CALENDAR YEAR	VDAR	YEA	_	ľ	97		L			CAL	END/	CALENDAR YEAR	FAR	86		∢
PROCUREMENT YEAR		œ >	ΔI	10 10CT 96	AS OF 1 OCT 96	o υ ⊢	z o >	O B O	¬ ∢ Z	т <b>п</b> в	2 < C	4 G G	≥ < ≻	7 D Z	7 2 -	A ⊃ Ω Ω ⊞ α	001	20>	0 11 0	¬ ∢ z	т ш а	∑ < 0	4 d d	∑ < >	¬ ⊃ 2	¬ ⊃ -	ى د ∢	αшα	⊢ша
Lake City Army Ammunition F	FY96P	∢	=		1.1				Ι	T		1	+-	1	1	╀	┿	╄	╀	1	1	_	1	_		1			
Plant	FY97	4	1.4		1.4					T		T		-	+	+	$\vdash$		-	-	_		L	L	0.7	0.7			
Plant	FY98	A	1.4		1.4							T	T	$\dagger$	+	-	+	-	+	-	1	L				┾	0.7	0.7	
	FY99	٧	1.4		1.4					T		T		-	+	$\vdash$	$\perp$	-	$\perp$		_	$\perp$	$oxed{}$		$oxed{}$	L			1.4
												T	$\vdash$	$\vdash$	$\vdash$		$\vdash$		_	_	_	_							
										П	П			-	$\vdash$	$\vdash$	-	-				_		_					
		$\dashv$								Н	П	Н	H	H	Н	H		$\sqcup$											
		1											$\dashv$	H	Н		Ц	igert	Ц										
		$\dashv$													Н	Н		Щ											
		$\dashv$										Н		$\vdash$	Н		H												
		1											H	Н	Н	H	$\vdash$	$oxed{oxed}$	L							<u> </u>			
		1														Н		_		_			L						
		+								$\dashv$			$\dashv$	$\dashv$	$\dashv$	$\sqcup$	Н	Ц	Ц	Ц	Ц								
		$\dashv$						T	1	$\dashv$		1	$\dashv$	$\dashv$	4	$\dashv$													
		$\dagger$	1						7	7	$\forall$	+	$\dashv$	$\dashv$	$\dashv$	$\dashv$			Ц			Ц							
		$\dagger$							$\dagger$	+	7	$\dagger$	$\dagger$	+	$\dashv$	+	$\dashv$	_	_										
	1	$\dagger$	1						$\top$	$\dagger$	$\dagger$	+	+	+	+	+	$\dashv$	$\downarrow$	4	$\downarrow$									
		$\dagger$						Ī	1	$\dagger$	+	†	$\dagger$	+	+	+	+	$\downarrow$	$\downarrow$	$\downarrow$									
		+							+	$\dagger$	$\dagger$	$\dagger$	$\dagger$	+	+	+	4	$\downarrow$	$\downarrow$	$\downarrow$				$\perp$					
		T	T					T	T	T	+	$\dagger$	$\dagger$	+	+	+	+	$\downarrow$	1	_	$\downarrow$								
		H						П	П	H		$  \cdot  $	H		H	H		igdash	$\sqcup$	L									
TOTAL			5.3		5.3								-	0.5 0.	9.0										0.7	0.7	0.7	0.7	4.1
						00+	z o >	ОШО	¬ ∢ z	т <b>п</b> в	<b>ક</b> ∢α	<b>۵ ت ت</b>	<b>∑</b> < ≻	7 D Z	ר ה פ	A D S	00-	z 0 >	υшυ	¬ ∢ z	тпю	Σ∢α	< 0. α	Σ ∢ ≻	7 D Z	7 0 -	∢ ⊃ ७	νшα	
MANUFACTURER'S	PRODUCTION RATES	JCTI	ON R/		REACHED						ı.	ROC	PROCUREMENT LEAD TIME	ENT	EAD	TIME							REM	REMARKS			)		
NAME & LOCATION	MINIMOM		1-8-5	MAXIMUM								1	ADMIN LEAD TIME	LEA	D TIM	Ш		MANU-	<b>1</b>		TOTAL	ر							
	SUST											4	PRIOR		AFTER	ER	7.	FACTURING	SING		AFTER	D'		Qua	Quantities in Millions	is in	Mili	Suc	
Lake City Army Ammunition	0.00		33.5	39.3									1 OCT	-	۲	1 OCT	_	TIME	, l		1 OCT	——— ⊢							
Plant						INITIAL	M				1	3	з мо	$\dashv$	9	6 MO		8MO			14MO		Note:	Produc	Note: Production Rates are in millions	afes	2. 2	a cilli	
Independence, Mo						REC	REORDER (Previous Source)	<b>R</b> (Pn	evious S	(acurce)	ᅱ		з мо	$\dashv$	4	4 MO		7 MO			11 MO		for the	5.56rr	for the 5.56mm ammunition family	munitic		<u>2</u> 5 ≥	
DD Form 2445, JUL 87	Previ	ns ed	Previous editions are obsolete	obsolete				_	2-1 SH	P-1 SHOPPING LIST	GLIST	_												ď	Page	4	4		Dagge

ITEM NO. 2

Page 4 of 5 Pages ExhibitP-21 Production Schedule

CHENDAN YEAR SOLUTION OF THE STATE OF THE STATE SOLUTION OF THE ST
Λ Θ Θ       1
0.7
0.7
0.70

ITEM NO. Z

ExhibitP-21 Production Schedule

										DATE		
<b>H</b>	BUDGET ITEM JUSTIFICATION	ITEM	JUS	TIFIC	AT	S NOI	SHEET	H.		<u></u> ਸ	FEBRUARY 1997	1997
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIVI	TY				P-1 ITEM NOMENCLATURE	NOMEN	CLATURE				
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 2.	MUNITION, ARM	Y/ACTIVITY	2.			CTG 7.62MM ALL TYPES	M ALL	TYPES				(E02000)
	FY 96	6 FY	62	FY	86	FY	66	FY	00	FY		2 FY 3
QUANTITY	-0-	-0-	1	-0-		-0-		-0-		-0-		-0-/-0-
COST (In Millions) \$	\$ 9.3	\$ 8.0		\$ 3.1	J,	\$ 23.6		\$ 36.8		\$ 43.8		\$ 43.2/44.5

DESCRIPTION:

This budget line includes 7.62MM ALL TYPES.

P-1 SHOPPING LIST ITEM N 3 PAGE NO.

(DOLLARS IN THOUSANDS)
COST ANALYSIS
AMMUNITION

			1			4 44 44 4	)		אוד מאונ	TITOODIT	(00)	
APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVI	_	ACTIVITY: ARMY/ACTIVITY 1. AMMUNITION	MUNITION	CTG. 7.6	2MM. ALL S	7.62MM. ALL TYPES (E02000)	(000)		DATE	FEBRUARY 1997	97	
		96			97		FY	86		FY	66	
SSN/ITEM:	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	OTY	UNIT	TOTAL
(E01902) CTG 7.62MM BLANK M82 LINKED/ M13	0	00.0	0	0	00.0	0	928	0.53	488	25356	0.54	13609
(E02002) CTG 7.62MM 4 BALL/1 TRACER LINKED	0	00.00	0	4586	09.0	2760	0	00.0	0	0	00.0	0
(E02003) CTG 7.62MM BALL M80 LINKED/M13	9476	0.57	5361	2695	0.56	3205	0	00.00	0	11122	0.57	6390
(E02006) CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN	0	00.00	0	0	00.0	0	0	00.0	0	0	00.0	0
(E02007) CTG 7.62MM 4 BALL/1 TRACER F/OHF	0	0.00	0	0	0.00	0	1013	0.64	648	1795	0.65	1172
(E02201) CTG 7.62MM SPEC BALL M118	•	0.00	0	0	00.0	0	0	0.00	0	676	0.72	4 8 5
TOTAL P-1 LINE ITEM			5361			5965			1136		<del>-</del> , , ,,	21656
DD FORM 2448, AUG 89				P-1 ITEM NO.	NO. 3	- G	PAGE NO.	2 OF 27		EXHIBIT P	P-5	

											DATE			
	BUDGET ITEM	LI -		JUS	TUSTIFICATION SHEET	AT]	LON	3HE1	31		[1:	FERRIJARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	ITY					P-1 ITEM NOMENCLATURE	1 NOMEN	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, ARM	MY/ACTI	IVITY 1.		AMMUNITION		CTG 7.621	MM BLAN	CTG 7.62MM BLANK M82 LINKED/M13	KED/M1	m		(E01	(E01902)
	FY	96	FY	97	FΥ	86	FY	66	FY	00	ΡŸ	0.1	0.2 F.Y	Ċ
QUANTITY	-0-	,	-0-		928		25356	1	25377	8	25,403			333
(Thousands)									1		7			2
COST (In Millions)	-0- \$	\$	-0-		\$ .5	- OF	\$ 13.6		\$ 13.9		\$ 14.2		\$ 14.6/14.9	4.9

#### DESCRIPTION:

of the service round. The propellant is held in by a wad. The mouth of the cartridge is sealed and crimped. The Blank Firing Attachment (BFA) M21 is installed on the M240 Machine Gun to enable blank ammunition to be fired and to This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration This item will provide back pressure to sustain continuous firing. This item is Code A, approved for service use. be procured at a fixed standard price.

# JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1958

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 7.62MM BLANK M82 LINKED/M13

PCN:P02QM1DOC4Z

DATE: FEBRUARY 1997

NSN = 1305-01-181-1750

(E01902)

	FY 96	(QTY		) FY	97 (QTY		<b>1</b>	FY 98 (QTY	92	928453) F	FY 99 (C	(QTY 25	25355821)
ELEMENT OF COST QM: EACH	8	QTY	UNIT	TOTAL	УТQ	UNIT	TOTAL	ŶŢQ	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.LINK M13			• •					928453 947023	0.41	384 20	25355821 25862938	0.42	10705 564
3.PROPELLANT WC818 (LB)				-••				2600	6.55	17	70997	69.9	475
SUBTOTAL										421			11744
PRODUCTION SUPPORT													1200
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION	NEERING CE ING RTATION			<b></b>									135 135 135 145
5. INDUSTRIAL STOCI	-:									- 129			1865
TOTAL P-1 LINE ITEM	**************************************	* * * * *	*******	******	****	*	*	*********	0.53		**************************************	******** 0.54	13609

P-1 ITEM NO. 3 PAGE NO.

EXHIBIT P-5

4 of 27

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	۲۲ 1997 ع	- 1 1 1
APPROPRIATION/BUDGET ACTIVITY	IVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-01-181-1750	1-181-17		
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ARMY/ACTIVIT	Y 1. AMMUNITI	ION	CTG 7.	62MM BLANK	CTG 7.62MM BLANK M82 LINKED/M13			(E01902)	02)
LINE ITEM/ FISCAL YEAR CONTRACTOR	TOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REOD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)	PACK (LAP)			1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				i 	1
FY 1994 OLIN CORP	WO HO	SS/CPAF	IOC	NOV 93	OCT 94	24192800	.28			
FY 1998 OLIN CORP	CE, MO	SS/CPAF	IOC	NOV 97	OCT 98	928453	0.41	YES	ON	
FY 1999 OLIN CORP. INDEPENDENCE, MO	CE, MO	SS/CPAF	IOC	NOV 98	0CT 99	25355821	0.42			
2. LINK M13										
FY 1994 VALENTEC W	ELLS	C/FP	IOC	JAN 94	JUL 94	24676656	.02			
FY 1998 TBS FY 1999 TBS	5	C/FP C/FP	IOC	JAN 98 JAN 99	JUL 98 JUL 99	947023 25862938	0.02	YES	ON	
REMARKS:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TBS - To Be Selected

3 PAGE NO.

P-1 ITEM NO.

5 of 27

PCN PO2QM1D0D4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	1	DATE	DATE: FEBRUARY 1997	8Y 1997	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-01-181-1750	)1-181-1	750	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TIVITY 1. AMMUN	ITION	CTG 7.	62MM BLANK	CTG 7.62MM BLANK M82 LINKED/M13	٤.	1	(E01902)	02)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
3. PROPELLANT WC818 (LB) **		 	                 	; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	:
FY 1994 OLIN	SS/FP	IOC	AUG 94	SEP 94	55644	5.98			
FY 1998 OLIN MADES FI	SS/FP	IOC	AUG 98	SEP 98	2600	6.55	YES	NO	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	70997	69.9			
REMARKS:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1 1 1	i ! ! !

REMARKS:

6 of 27 PAGE NO. 3 P-1 ITEM NO.

<sup>\*\*</sup> PACING COMPONENT

EVIL YEAR  99    CALENDAR YEAR   99   CALENDAR YEAR YEAR   99   CALENDAR YEAR YEAR   99   CALENDAR YEAR YEAR YEAR YEAR YEAR YEAR YEAR Y				:	107700000	]							•	i						<u>.,</u>	FEBRUARY	T I	1221		3	1	2	70.7	DD-COMP (AR) 1092	
For the problem of	PPROPRIA PROCUREME	TION/BUDG NT AMMUNIT	ET ACTIVION, ARMY	VITY (/ACTI	VITY	1. 2	MMMON	ITION					<u>-                                    </u>	l	ZMM E	MENC	LATU M82	IRE LINK	ED /M	1 =					-				E01	E01902
Fig.   Fig.	AC U S	PROGRA	4 ALO W	ACCEP. BA	교회	ISCA	L YE	4R 97					FI	SCAL	YEAF	~ ~					됴	ISCA	E .	EAR	}					٦<
FY FY FY FY FY FY FY FY FY FY FY FY FY	Σ		1			96	S.	ENDAR Y	28	6	7				CALEN	DAR YEAL		86			4		٢	ALENDAR	YEAR	99				í-t
NA   2000   2000 0.000	>   - - -	FY	FY					FEB	AR APR				ğ		NAC	FEB MAR	Υ <sub>α</sub>			_	$\rightarrow$	NON	_	AN FEB	ž		<u>75</u>		SEP	ııα
MA		,	2	00.0	8	1	+		+	floor	$\perp$	$\perp$	T	+	#	+		+		+	+		1	+	1	-		$\dagger$		0
MA	1	00.0		0.00.0	00		-		-	$\vdash$				+	T	+		╁		$\dagger$	+	L	$\perp$	+		+	L	+	-	00
MA		00.00		0.00	8		Н		H		П		П	$\vdash$		-		$\vdash$		$\dagger$	$\vdash$		$oxed{T}$	-		$\vdash$		-		0.00
N SEC 140	Σ			0.00	.90		$\dashv$		$\sqcup$	H			П	Н							ļ <u>ē</u>		8		80				. 02	020.00
SOF 1.40   1.40   0.00   1.40   0.00   1.40   0.00   1.40   0.00   1.40   0.00   1.40   0.00   1.40   0.0	Ξ			0.00	5.4	7	+		$\dashv$	_	$\blacksquare$		4	$\dashv$		$\dashv$		H		H	H					H		+		25.4
No.   1.00   0	1	┵	1	1	1	#	+	1	+	$\pm$	$\bot$	$\pm$	$\bot$	+	1	+		+		$\dagger$	+	1	_	+		-				
M SOP	<u> </u>	عإذ		0 00 0		1	+	#	+	+	$oldsymbol{\mathbb{F}}$	$\pm$	T	+	#	+		+			+		+	+		╀		+		
M SC   D	Σ			00.0	205	<u> </u>	<del> </del>	L		$\perp$			13		F		F	15			15		T	╀		-		+		
M SOF	Σ			0.00.0	.70		$\vdash$		igspace		F			•1		•1		!	•	•	+-:	10	10.		10	101		-		00
No. 0.00   0.0	M SO				8		H		$\dashv$				П	H		Н		H		Н	Н									1.00
M KC	=				$\dashv$		$\dashv$	$\exists$	$\dashv$	1	4	_	_	$\dashv$	_	-		-			-			_				_		
MKC   0.00   0.00 0.00 0.00   0.00		- 1	7	0.00	8		$\dashv$		-	_	1		4	$\dashv$	$\downarrow$	1		-			$\dashv$					$\dashv$				00.0
M KC		8 -		00.00	8	1	+	$\downarrow$	$\dashv$	_	7	$\pm$	1	+	$\downarrow$	$\dashv$	1	1		+	$\dashv$		_	4		$\dashv$		-		0.00
M   M   M   M   M   M   M   M   M   M	E S	- 14		0.00		1	+	$\downarrow$	+	$\dagger$	7	$\dagger$	1	+		+	1	+	1	$\dagger$	$\dashv$	1	_	+	$\downarrow$	$\dashv$		-		0.00
M OCH   D.05   0.06   0.00	₹ :		1		3	#	+	#	+	+	1	$\pm$	7	+	#	+	1	+	1	$\dagger$	+	$\downarrow$	+	+	1	$\dashv$		+		00.0
MOTH D.05   0.05 0.00   0.06 0.00   0.04   0.05 0.00   0.06   0.04   0.05 0.00   0.00 0.00   0.00 0.00   0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00   0.00 0.00 0.00 0.00 0.00   0.00	Σ				<u>\$</u>	#	-	#	+	+	Ţ	$\bot$	+	+	#	+		+	1	+	+		$\dagger$	-		+	1	+		7.40
M OTH   D.06   0.00	Σ	45		0.50	=	1	+	‡	$oldsymbol{\perp}$	+	L	$\dagger$	T	+	1	+	İ	╀	$\downarrow$	$\dagger$	+	I	+	+		+	1	+		0
M OTH	Σ	$\overline{}$		00.00	90	1	-	Ľ	0.4	+	I	۲,	2	+	<u> </u>	$\perp$		+		$\dagger$	+		$\dagger$	$\perp$		-		╁		000
CTH	Σ			0 00 0	8		<u> </u>		F	-	L			<u> </u>		-		$\vdash$		H	-		$\dagger$	-		-	L	+	1	
ALL 1.45				0.00.0	8	Ц	H		$\prod$	H		H	П	Н	Ц	Н		Н			Н		-			$\vdash$		$\vdash$	ļ	00.00
ALL 1.45 ALL		<u></u>	0.00	0.00	8		$\dashv$		-	$\dashv$		$\dashv$	$\dashv$	$\dashv$	$\downarrow$	$\dashv$		$\dashv$		$\dashv$	4		$\exists$							00.0
ALL   1.45   1.45   1.00   1			1	$\dagger$	+	#	+	#	_	+	1	+	1	+	#	-		+		$\dashv$	+	1	+	-		+				
ALL   1.50		┵			15	1	+	#	$oxed{F}$	+	T	$\dagger$	1	+	‡	+	İ	+		+	+	I	$\dagger$	+	$\dagger$	+	1	+	1	
ALL   1.50   0.00   1.50     1.60   0.00   1.50     1.04     1.02   1.31.13   1.31.1		علة		000	30	1	+	1	5	$\dagger$	L	+	ļ	+	1	+	İ	+	I	$\dagger$	+		$\dagger$	+	$\perp$	+	1	+		00 :
ALL   1.60   0.00   1.60	AL	3		000	9 6		-	1	5	+		1	Ľ	╅ल	13		Ē				1	T	$\dagger$	+		+		+		000
PROCURER NAME   PRODUCTION RATES   1.45   37.0	ALI				09		$\vdash$		lacksquare	_		$\vdash$						· <b></b> _		1		200	a C	2	ά				0	
PRODUCTION       1.45   3 / 1.0		TOTAL MON-					H			H	$\prod$	'	=======================================	1 5		5	-		;	1 ;								2	8.02	020.00
MANUFACTURER NAME   PRODUCTION RATES   SWAINS TO   SECONDAL STANDARY   LEAD TIME   PRODUCTION   RATES   PRODUCTION   RATES   PRODUCTION   RATES   PRODUCTION   RATES   PRODUCTION   RATES   PRODUCTION   RATES   PRODUCTION   RATES   PRODUCTION   PRODUCT		PRODUCTION		1.45 13	<u>                                      </u>		-		04	-	]	4	<u> </u>	7 % 7	167-16	CT - (CT	<u> </u>	7 - 67	Ž L			81	8	81.8		18	8	0.8	8.02	33.8
LAKE CITY AAP IND MO	FAC	MANUFACTU	RER NAME	$\Box$	SODUC	TION	RAT	ES	OT SHITS	Ц		PR	OCUR!	MENT	LEA	D TI	ME	П	PEN PEN PEN PEN PEN PEN PEN PEN PEN PEN	ING ING	COME	ONE	T W	3818	M/U)	= 18/	/LB)			
OLIN, ST MARKS, FL	+	A DOCAT	NOT THE TAX		5	2-8-5 7-	MAXII	¥ 4	Ex p-DA			[2]	S.C.	AFTER 1 OCT			TOTAL		IN	14 T.P.		ALT.		ALT		PLT.	Т	OTAL		
6 2 11 13 QUANTITY		JLIN, ST MA	RKS, FL		20.0	0.83	1 1	1 1			NITHI		9	7	11		13		REC	RDER		<b>.</b>		I I				~ ~		
QUAINTI'Y				+				+		1 62	EORD	F. F.	9	~	7	+	1 =	T							č			1		
					1					]							1	7		ĺ					'n	N.T.	ı	MIL	CION	S

	1				œ	Т		0	0	0	0	5	Т	7	T	Т		$\neg$	Т	$\neg$	Т	7	П	_		T T	Т	-	11	l			
<u>چ</u> ن	E01902	^	<=-F	ηœ	33.8			0.00	0.00	0.00	00.00	7.0/67										İ		İ						. 0233.8			
REQUIREMENTS COMPOSED SYMPOL DD-COMP (AR) 1092	E01			SEP							Ţ	72					П	1		T										02			
Roi.				ATG						T	1	T	T	T	Ī					1	T			十	1	П	$\dashv$	$\top$		.08.08.		ы	
1092				1ng			T				$\top$		T	T	T		П	7	$\top$	$\top$	$\top$	1		+	1	$\Box$	$\dashv$	+	1 1			TOTAL	v ~
AR)				355	$\top$		1			7	$\top$	$\dagger$	T	T	T			$\dashv$	$\top$	Ť	$\dagger$	$\dagger$	H	+	╁	H	+	+	+ +;	8	<u></u>	Ĕ ÷	12
EMER TP ()			99		$\top$	$\top$	$\top$		$\Box$	十	$\dagger$	+	t	╁			$\vdash$	+	+	+	+	+	$\vdash$	+	+	H	+	+	1-1		(U/M = K/LB)		
OUIR	ĺ		ای	APR	+		+-	$\vdash$	H	+	+	+	+	$\vdash$	$\vdash$	Н	$\dashv$	+	+	╁	+	H	-	+	+-	Н	+	+	0 0	)   	II ≥≤,	PLT	
3.5 CD	<u> </u>		¥ 5		+	+	+-		$\vdash$	+	+	+	╁	+-	├	Н		+	+	+	+	H	+		-		+	+-	7		M	Δ, ,	4 1
		1	CALENDAR YEAR	JAN FEB MAR		+	+-	$\vdash$	H	+	+	+	╁	╁	├	H	$\vdash$	+	+	+	+-	$\vdash$	+	- -	$\perp$	$\sqcup$	+	+		ਗ।			
	İ	YEAR 99	LEND	Z Z	$\dashv$	_	+	-	╁	$\dashv$	+	+	╁	╁	┝	$\vdash$	$\dashv$	+	+	+	╀	$\vdash$	+	+	+	$\vdash$		4-		3	818	$rac{ ext{ALT}}{11}$	11
1997			10	DEC	+	$\vdash$	+	$\vdash$	╁╌┼	╬	+	╁	╁	╁┈	├	Н	-	+	+	╁	+	$\vdash$	$\dashv$	+	+	$\dashv$	- -	-		3	M	•	•
19		CAL		VON	$\dashv$	+	+	-	Н	+	+	╁	╁╌	$\vdash$	H		$\dashv$	+	+	+	+	Н	$\dashv$	+	+	4	4	$\bot$	7	<u>.</u>	E I	<u>-</u>	
ARY		FISCAL		t yo	+-	$\dashv$	+-	H	$\vdash$	-	+	╁	╁	-		H	$\dashv$	+	+	+	╀	Н	-	+	$\vdash$	4	_	4-		3	NO.	UALT 6	9
BRU		-	1	SEP	+	$\dashv$	+	-	H	٦,	╕	╁	╀	$\vdash$	H	$\vdash$	$\dashv$	+	+	+	+	$\vdash$	_	╄	+	4	_	4	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Θ.		_
된	_ ر			AUG SI	+i	$\dashv$	+	-	H	╬	4	+	╀╌	╁	H	Н	+	+	+	+	╁	$\vdash$	4	+	$\dashv$	4	+	1	l c		δĎ.	AL	ER
DATE FEBRUARY	M			JUL	+	$\dashv$	+	Н	$\vdash$	+	+	+-	+-	╀	H		+	+	+	+	$\vdash$	Н	+	- -	$\vdash$	_	$\bot$	$\perp$	7		PACING COMPONENT WC818	INITIAL	REORDER
	ZE CE			JUN J	$\dashv$	$\dashv$	+		H	+	+	+	┼-	-	Н	Н	+	+	+	+-	<del> </del>	$\vdash \downarrow$	4	+	Н	4	4	$\perp$	13	<u> </u>	<u> </u>	_==	<u>R</u>
	RE LIN	İ	98	MAY JU	+	_	+		$\vdash$	+	+	╄	╂	┝	Н		+	+	+	+	╀	H	_	$\bot$	Ш	_	$\downarrow$	Ш			П	t	-
	7.TU			E	+	+	+	Н	H	+	╀	+	╀	L	Н	$\dashv$	+	+	+	╀	$\vdash$		+	_	Н	4	_	$\bot$	1,	• 1		AFTER 1 OCT	13
	CL7		5 5	<u> </u>	+	+	+		$\vdash$	╁	+	╀	╀	H	Н	-	+	+	+	+-	$\vdash$	Н	_	-	$\sqcup$	4	_	$\sqcup$	3.13		WE	TER	
	MEN	86	AR YE	8	+	+	+		$\vdash$	+	+	╁	╁		$\dashv$	$\dashv$	$\dashv$	╀	+	╀	H	$\vdash$	4	+	$\vdash$	4	1	$\sqcup$	13		F	4	
1	NOI M B	EAR	CALENDAR YEAR	JAN FEB MAR APR	+	+	+	$\dashv$	$\dashv$	╁	╀	╁	├	Н		$\dashv$	+	+	+	╀	$\vdash$	Н	+	+	$\sqcup$	4	1	$\sqcup$	3.13		LEAD TIME	PROD.	11
	ITEM NOMENCLATURE 7.62MM BLANK M82 LI	χī	٦	r cad	$\dagger\dagger$	$\dashv$	╁┪	$\dashv$	$\dashv$	╁	╁	╁	╁	Н	$\dashv$	$\dashv$	+	╁	┿	╀	Н	$\dashv$	+	╀	H	+	+	$\sqcup$	.13,13			ā	
		CAI		1 AON	+	$\top$	$\dagger \dagger$	1	+	╁	╫	╁		Н	$\dashv$	+	+	+	+	╁	$\vdash$	+	+	┿	$\vdash$	+	╀	$\vdash$	3.1	1	TEN	SCT	7
4	P-1	FIS	١,	E C	††	+	$\Box$	7	十	+	+	╁	┢	Н	+	$\dashv$	+	╁	╁	╁	Н	$\dashv$	+	╁	H	+	+	┨	13.13	1	REA	1 A	
e e e	_		1	SEP	$\Box$	+-		$\dashv$	+	╡	t	t	Н	Н	$\dashv$	┪	+	+	╁	╁	Н	$\dashv$	+	+	$\vdash$	+	+	H	02.1	1	PROCUREMENT	S P	9
(EXHIBI				AUG	$\Box$	$\top$	T	7	7	+	T	T	Н	H	7	$\dagger$	+	+	╁	╁	H	+	+	╁	$\vdash$	+	╀	┨	<del> </del>	1	PR	g	
ΙΞI				JUL	11	$\top$	T	7	1	$\dagger$	$\dagger$	$\vdash$	Н	$\dashv$	7	十	+	+	╁	┢	Н	+	+	╁╌	$\vdash$	+	╁	H	_	1			INITIAL
臼			5	NO.	$\prod$			T	1	T	T	T	П		$\neg$	T	+	†	十	+	Н	+	+	╁	$\vdash$	+	╁	H	+	l			N
1 1				χ			П	1	Ť	1	T		П	$\exists$	寸	7	$\dagger$	十	T	╁	Н	+	╅	+	$\vdash$	╁	+	$\vdash$	+-	l			
J.E.				JAN FEB MAR APR	$\prod$	T	П	7	1	T		T	П		1	T	$\dagger$	$\dagger$	†	t	Н	十	+	+	$\vdash$	+	╁╴		+		2×4	П	T
ΙÄΙ	z	97	YEAR	Ř					$\top$	T			П		1	1	十	T	✝	T	П	十	+	T	$\vdash$	+	十	$\Box$	10.		REACH MAX AFTER D-DAY	2	
SCHEDUI	7 1. AMMUNITION	χ 0	CALENDAR YEAR	FEB			П	T	T		Γ	Г					T	Ť	T	Γ	П	$\top$			$\Box$	$\top$	†	$\Box$	┪.	1	5 H	9	- 1
ß	Ĭ.	X E.A				WC818									T		T	T	T			1	1		H	$\top$	1	П	十	i	E	17.76	1.00
訚	¥.					ξ										T	T	T	T	Γ	П		T		$\sqcap$	T		$\Box$	$\top$		2	-	-
PRODUCTION	-16	S	96	OCT NOV DEC		PROPELLANT					Γ					1	T		Т		П		$\top$	$\top$	$\Box$	$\top$	T	$\Box$	$\top$	ĺ	PRODUCTION RATES	5.15	0.83
힑	<u> </u>	- - 독	6	ğ	Ш	딥									T			Τ		Γ	П					1	T	$\Box$	$\top$			12	- 1
ă	VI	BAL	AS OF 1 OCT	96	33.8	ROP		0.0	श		5.0			П	T	T		T	Τ		П		$\top$	$\sqcap$		T	T		37.0			0.00	0.70
M <sub>Y</sub> ≥	- 타			10	18				0.00 0.00	0.00 5.00	0.00 95.0	Н	$\dashv$	+	+	+	+	╀	╀	$\vdash$	Н	+	+	+	$\vdash$	+	+	$\sqcup$	3	1	PR		
	, <u>*</u>	ACCEP. PRIOR	1 oc 1	96	0.0	EN		3.00			0.			١								ı							45				
Ę	AR I			FY 99	l m l	PACING COMPONENT:			Τ		95.0			1		1		Τ		П		$\top$	T	П		$\top$	T	$\dagger \dagger$	+=	ĺ	AME	Æ	ᆈ
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	É	Q	-	_	1 1	18	$\dashv$	4	+	+-	153	Н	$\dashv$	4	4	4	$\bot$	╀	1	Ц		_	$\perp$	$\perp$		$\downarrow$	$\perp$	Ц			Z		
100		PROGRAM QTY	į	7 8		ပ္				5.00														Н			İ		ATE N		TE C	AP P	ST MARKS, FL
		OGF		7 L		ACI			7						T			-			П	T	Τ	П	T		Τ		NOT		155	7	2
		PR		7 д 96Р		벁		ड़ी	9	+	┢	H	$\dashv$	十	+	+	+	+	$\vdash$	Н	$\vdash$	+	╁	Н	$\dashv$	+	+	H	TOTAL MONTHLY PRODUCTION		MANUFACTURER NAME	LAKE CITY AAP IND MO	S
				46	+ +	+	-4	Σ	٥.	+	$\vdash$	H	4	4	4	+	+	$\perp$	╄	Н	$\sqcup$	$\perp$	4	Н	_	$\downarrow$	$\perp$	Ц			IAN	KE	OLIN,
	E E	លកា	<b>%</b> >	.	AET.					į	ToT																					日	ੋ
	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	5	Σ	$\mp$	H	+	_	_	× .			Ħ	#	#	#	#	#	+	#	Ħ	$\exists$	#	丰	Ħ	+	#	+		=		,,	$\prod$	
PI	PR	FAC						7	,	1/~	~																				FAC NO		7
	ς	됴	z_	$\perp$									$oldsymbol{\perp}$		$\perp$	$\perp$	$\perp$					$\perp$				丄							

QUANTITY IN MILLIONS

PAGE NO. 8 OF 27 PAGES

P-1 LINE NO. 3

11

INITIAL

RODU
39 CALERIAN IEAN
0.00 0.00
0.00 0.00
00.0000
0.00 25.42.12.12.12.12.12.12.1
1.40 0.00
0.00 0.00
1.50 0.00
0.00 1.00.10.10.10.10.10.10
00.00 00.00
0.00 0.00
00.00.00
0.00 7.40.62.62.62.62.62.62
0.05 0.00
00 00 0
00.00.00.00
1.45 0.00
1 50 0 00
00.00
4.61 33.82.82.82.82.82.82.82
PRODUCTION RATES HOWTHS TO HINTHOW
0.00 5.15 17.76 5
1.00

QUANTITY IN MILLIONS

PAGE NO. 9 OF 27 PAGES

P-1 LINE NO. 3

			-			TT	0	ू	5 0	0		П	T			П	Τ	Т	Т			T					_				
Berl.	E01902	I.	£ [1		0.00		0.00	00.0	000	0.00		$\sqcup$	$\perp$	$\perp$	_		$\perp$	_		$\perp$	$\perp \mid$	$\perp$		Ш		Ш				<u>v</u>	2
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E01			SEP			$\bot \bot$		$\perp$	Ш		$\coprod$	$\perp$	$\perp$				$\perp$	Ц	$\perp$	$\coprod$	$\perp$	$\perp$	Ш	$\perp \perp$	Ш				SNO1'I'IIM NI	
Solt.				AHG						Ш																		ΆL		III	
2601 1092				JUL						$\coprod$		Ш																TOTAL	12	X Z	
NTS AR)				205																							LB)			H Y	
REME MP (			02	MAY		П			Т	П	$\top$	П							П						$\Box$		X	E-J		ΓIT	
EQUI D-CO				APR			$\sqcap$			П		П											П				11	PLT		QUANTITY	
~ 0			YEAR	MAR																	П				П		(U/M = K/LB)			Ø	
1		<u>~</u>	CALENDAR YEAR	FEB			$\prod$			П	$\top$	П			$\prod$								П		$\prod$		ı	ALT			
		YEAR 02	CALE	JAN			$\prod$										Τ	$\Box$			П				$\prod$		80. VC8	Æ.	11		
1997				DEC				$\Box$												Τ	П		П		$\prod$		Ę			ĺ	
		FISCAL	1	YON																			П		П	7.	ONE	UALT			
UAR		Н		ξ																			П				OMP(	βv	9		-
DATE FEBRUARY				das			$\perp$			Ш	$\perp$	Ш	$\perp$		Ш					L							PACING COMPONENT WC818	F	品品		١
E	[]			AUG								Ш			Ш												PA FK	TNITHIA	REORDER		
DA	JRE LINKED/M13			100			$oxed{\Box}$				$\perp$	Ц		$\perp$	$\sqcup$			Ш			$\coprod$				$\prod$		FF		Į E		200
	Į, ž		01	SGN	$\perp \perp$				$\perp$	$\perp \perp$		Ш	$\perp$		Ц		$\perp$					$\perp$	Ш				П	F:			Ļ
	ITEM NOMENCLATURE 7.62MM BLANK M82 LI			МАУ		Ш	$oldsymbol{\perp}$			$\coprod$	$\perp$	Ц	$\perp$		Ц			Ц		╧	$oxed{oxed}$					$\rfloor$		1. 0.7	13	13	6
	LAT M82			APR	11		$\perp \downarrow$		$\perp$	$\sqcup$		$\sqcup$	$\perp$	$\perp$			1				Ш		Ш				ME	TOTAL	1		0
İ	N N	5	CALENDAR YEAR	Ř	11	11	$\perp \downarrow$		$\perp$	$\sqcup$	_	Ш	$\perp$	┸	Ц		_	Ш	1		Ш	$\perp$	Ц	$\perp$	$\perp \downarrow$	╛	TIME			+	Γ
	JOM!	4R	ENDAR	FE9	11	44	$\bot \downarrow$	Ц	$\bot$	Ш	_	$\bot \downarrow$	$\perp$	$\perp$	Ш	$\perp$	_	Ш	1	_	Ц	_	Ш	$\perp$	Ш		EAD	ζοD.	11	11	9
	M M	YE,	ទី		1-1-	++	+	4	4	$\sqcup$	_	$\sqcup$	$\dashv$	1			$\bot$	$\perp$		$\downarrow$	$\sqcup$		1-1	_	$\downarrow \downarrow$	4	3	# 			0.0
21)	P-1 ITEM NOMENCLATU CTG 7.62MM BLANK M82	AL		DEC	++	+	+	$\dashv$	+	H	- -	╀╌┨	+	+	$\sqcup$	$\dashv$	+	+	-	$\perp$	$\sqcup$		$\sqcup$	_	$\sqcup$	4	EN		7	~	ŕ
P-21	P-1 CTG	ISC		NOV	++	++	+	-	+	H	+	╀┩	$\dashv$	+	$oldsymbol{+}$	-	+	+	+	+	$\vdash$	$\dashv$	++	-	++	4	REN	- S	-		1
	H O	<u> </u>	┨	SEP OCT	6	+	+	$\dashv$	+	$\vdash$	+	H	$\dashv$	+	+		+	+	+	+	╁┼	+	+	+	++	5	DOC	PRIOR AFTER 1 OCT PROD.	9	9	ľ
(EXHIBIT				AUG	.72.9	++	+	+	╅	╁┼	+	H	$\dashv$	+	╁┤	+	+	+	+	╫	╁┼	+	++	+	╁	. 82 . 72 . 9	PR	<b>₹</b>  Z →		<u>                                    </u>	1
HH				JUL	8	++	+	$\dashv$	+-	╁┼	+	╁┤	$\dashv$	+	╁┤		╁	+	+	+	$\vdash$	+	++	+	╁┼	8			TNTTAL.	REORDER	ŀ
X			8	NOC	8	++	H	$\dashv$	+-	$\forall $	$\dashv$	$\dagger \dagger$	$\dashv$	+	$\vdash$	+	+	+	+	╁	H	+	╁┼	+	╁╅	용			N	EO	
1			10	λά	189	††	$\Box$	$\top$	+	$\dagger \dagger$	+	$\dagger \dagger$	$\dashv$	+	H	$\forall$	十	+	$\vdash$	+	H	+	$\dagger \dagger$		$\dagger \dagger$	8	Ш		•		· ·
日日				_	8.78	11	$\top \uparrow$	十	1	П	+	Ħ	1	1	1		$\dagger$	†	$\Box$	T	$\sqcap$	$\top$	${\dagger}{\dagger}$	$\top$	$\dagger \dagger$	8	23	-DAY			l
SCHEDUL	, , ,		ă	JAN FEB MAR APR	8		$\Box$		1	ন		$\Box$	$\top$	1	T		Ť	$\top$		1	T	$\top$	$\top \uparrow$	十	11	33.82.82.82.82.82.82.82.82.82.82	PRODUCTION RATES MAN TO	TEN L			
田田	Y 1. AMMUNITION	8	CALENDAR YEAR	637	.82.82.82.82	III	П		T	$\sqcap$					T							$\top$	$\prod$	丁		8	S	Σ		+	
S	İ	EAI	S. LE	JAN.	8.	818	П			25		П	T				T		П						П	8	ATE	MAXIMUM	1.00		1
Z	A A	I.	Γ	DEC	2.8	WC														$oldsymbol{\mathbb{T}}$						8	R	22		44	
ΙĔ		SCA	96	ž	8	NE NE				25																8.	OI.	ا ا	0.83		ı
<u>5</u>	<b> </b>	FI	6	t o	8.	温	Ш			Ш		Ш						$oldsymbol{ol}}}}}}}}}}}}}}}}}$	Ш		Ш		Ш			8	UCI	Σ	- 1 - 1	+	<b> </b>
PRODUCTION	ACTIVITY ARMY/ACTIVITY	1 1 E	AS OF	3 0	0.00 33.82.	PROPELLANT WC818	0.00	0.00 0.00	7.00 0.00	70.0										ľ						3.8	ROD	NIMU IST	0.70		
M M	ry CTI	2 2		.  0			0	9			+	$\Box$	$\dashv$	十	+	$\vdash \vdash$	+	╁	H	+	╁┼	十	+	$\vdash \vdash$	+		4	불여	$\perp$	+	
_	ACTIVITY , ARMY/AC	ACCEP.	ဥ	9		E E	3.00	9 1	) 00 00 00 00			Ш		$\perp$		Ц	$\perp$		Ш		Ш			Ш		4.61	E	,	ဍ		
1	CTI	) E	-	FY 00	lωl	l Si				95.0																	NAM				П
	~			-		취	+	+	15		╁	+	+	+	+	H	+	+	$\vdash$	+	H	+	╁	H	Н		2	[8]	ZS.		
	EE	MK COOC	2	FY	1	PACING COMPONENT:	+-1	٠,	- 100	1	_	Н	4	+	$\bot$	dash	+	+	$\vdash$	+	+	+	+	ert	$\dashv$	TOTAL MONTHLY PRODUCTION	E	& LOCATION	ST MARKS, FL		
		5	9	FY 07		PAC			7.00						1											UCT.	2	8	ST		1
	NO W	=	Ĭ,	FY		$\prod$	8	0.00	T			П				T	Γ			Γ		Τ		T		ROD					
	ĬĖ.	-		-	+-+-	+	ᆛᅃ		E-I E	, <sub>E</sub> ,	$\dashv$	H	$\vdash \vdash$	十	+	H	$\dagger$	+		$\dagger$	$\dagger \dagger$	+	$\top$	十	$\top$	,,,,,	Ž		OLIN,		
7	RIA	Q.E	4124	>	ALL		70 <u>T</u>		Į į		$\perp$		Ц	$\perp$	_	Ц	$\perp$	$\perp$	Ц	$\perp$	$\coprod$	$\perp$	$\perp$	$oxed{oxed}$	$\perp$		卜	$\dashv$	+	+	╽┃
}	APPROPRIATION/BUDGET / PROCUREMENT AMMUNITION,		Σ	$-\Gamma$	++	++	**	포	X 7		+	+	H	$\top$	T	$  \uparrow  $	$\top$	1	$\sqcap$	1	$\dagger \dagger$	1					ز	No.	2		
	APP PR	5	NO.				7		7	4 ~	-																[6	ZI			]
							لسبل	ــــــــــــــــــــــــــــــــــــــ		لــــــــــــــــــــــــــــــــــــــ																					

μ	TITO CEN	_	A THE T		/+ # + B	É			E		DATE	
7	ישרוטנ	.	ד ד ביעו	200	OOSITEICHION	AI	Z C T C	CHERT	 E		ш,	FEBRUA
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVIT	Y				P-1 ITE	M NOME	P-1 ITEM NOMENCLATURE			
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION,	ARMY/	'ACTIVITY 1	AMMUI	NITION		CTG 7.62	MM 4 B.	CTG 7.62MM 4 BALL/1 TRACER LINKED	ER LIN	KED	
	FY	96	FY	97	FY	98	FY	66	FY	00	FY	0.1
QUANTITY		-	7021									

IARY 1997

03

FΥ

02

22916/23219

25830

19770

-0-

-0-

15.0/15.6

s

16.5

᠕

12.4

-0-

ŧ٥٠

-0-

w

(E02002)

4586 2.8 ŧ, -0--0-(In Millions) (Thousands) COST

#### DESCRIPTION:

It is intended for use against personnel and non-armor targets. This item is Code A, approved for service use. This item This item consists of ball and tracer rounds linked four to one and is used in Machine Guns Series M60 and M240. will be procured through the CAWCF at a fixed standard price.

### JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

# IYPE CLASSIFICATION DATE:

1957

ges

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1305:00-892-2150 (E02002)

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 7.62MM 4 BALL/1 TRACER LINKED

TOTAL UNIT (OTY QTY 99 FY TOTAL UNIT (QTY QTY 98 FY 150 TOTAL 2064 37 2338 98 3 22 274 2760! 4585895) UNIT  $0.45 \\ 0.02$ 5.83 5.83 0.60 (QTY 4585895 4677613 QTY 25682 6421 97  $\mathbf{F}\mathbf{Y}$ TOTAL UNIT (QTY QTY 1.PRODUCTION ENGINEERING
2.QUALITY ASSURANCE
3.ACCEPTANCE TESTING
4.INTERIM TRANSPORTATION
5.CAWCF GAIN/LOSS SURCHARGE 96 FΥ TOTAL P-1 LINE ITEM! 1.LOAD, ASSEMBLE, AND PACK (LAP) 2.LINK M13 3.PROPELLANT WC846 (LB) 4.PROPELLANT WC846T (LB) PRODUCTION SUPPORT ELEMENT OF COST OM: EACH HARDWARE SUBTOTAL

P-1 ITEM NO. 3 PAGE NO. 12 of 27

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	3Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-0	1305-00-892-2150	150	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CTG 7.	CTG 7.62MM 4 BALL/1 TRACER	//1 TRACER LIN	LINKED		(E02002)	02)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)	! ! ! ! ! ! ! ! !	; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1990 OLIN CORP	SS/CPAF	IOC	NOV 89	OCT 90	97700000	0.21			
FY 1997 CLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	FEB 97	OCT 97	4585895	0.45	YES	ON	
2. LINK M13									
FY 1990 VALENTEC WELLS	C/FP	IOC	JAN 90	JUL 90	99654000	0.02			
FY 1997 TBS	C/FP	IOC	MAR 97	JUL 97	4677613	0.02	YES	NO	
3. PROPELLANT WC846 (LB)									
FY 1990 OLIN ST. MARKS. FI.	SS/FP	IOC	AUG 90	SEP 90	548658	5.15			
FY 1997 ÖLIN ST. MARKS, FL	SS/FP	IOC	AUG 97	SEP 97	25682	5.83	YES	NO	
REMARKS:			:   			 	 	1	: : : : : : : : : : : : : : : : : : : :

TBS - To Be Selected

P-1 ITEM NO. 3 PAGE NO. 13 of 27

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	γΥ 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-00-892-2150	0-892-2	150	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IVITY 1. AMMUNITI	TION	CTG 7.	62MM 4 BALL	CTG 7.62MM 4 BALL/1 TRACER LINKED	IKED	1 1 1 1 5	(E02002)	02)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	LF YES WHEN AVATL
4. PROPELLANT WC846T (LB) **	1 1 1 1 1 1 1 1 1 1 1		 	 	! ! ! ! ! ! ! !	,                 	] ] ! ! !	i 1 1 ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1990 OLIN	SS/FP	IOC	AUG 90	SEP 90	136780	5.15			
FY 1997 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 97	SEP 97	6421	5.83	YES	ON	

REMARKS:

\*\* PACING COMPONENT

P-1 ITEM NO. 3 PAGE NO.

14 of 27

0000	E02002	⊳د	Ē-, [:	sr. R		0.00	0.00	0.00	0.00	0.00	0			00 0	0.00	0.00	0.00	0.00	0.00	1.00	00	00.0	0.00	0.00	0.00	0	000	00.0	00.00	0.00		1.00					SNC			
DD-COMP (AR) 1092	Ξ.		66	MAY JUN JUL AUG																														_	12		TLL IN WILLIONS		•	
FEBRUARY 1997 DD-cc		FISCAL YEAR 99	CALENDAR YEAR	NOV DEC JAN FEB MAR APR																												71	(U/M = K/I)	or ALT F	6 11 1		VUANTITIY			
URE TAWER	ľ		86	MAY JUN JUL AUG SEP OCT				.38,38,38,38,42																				.03.03.03.03.02			.41.41.41.41.44	_	PACING COMPC	OCT INITIAL		<u> </u>		OF 27 PAGES		
1 ITEM NOMENCLATURE C 7 63MM / DAIT /1 mma.	FISCAL VEAD BALL/I TRACER LINKED	SCAL YEAR	CALENDAR YEAR	NOV DEC JAN FEB MAR APR				.38.38.38.38.38.38.38																				. 03. 03. 03. 03. 03. 03.			.11.42.3.41.41.41.41.41.41.41.41.		PROCUREMENT LEAD TIME	AFTER PROD. AFTER 1	2 11 13	2 11 13	1 010 110 11			
	101		97	MAY JUN JUL AUG SEP OCT				.38														701.51.11.42.1					.20	.03			701.51.11.42.3.411.		PROCURE ADMIN DE	PRIOR 1 OCT	INITIAL 6	REORDER 6	r 1 f ter	P-1 LINE NO.		
AMMUNITION	FISCAL YEAR	97	CALENDAR YEAR	DEC JAN PEB MAR APR																		.701.1.901.8									.30.701.1.901.8 .7		PRODUCTION RATES MAYING AFTER D-DAY	4 47.79 5	1.00					
ACTIVITY , ARMY/ACTIVITY 1.	FISC	ACCEP. BAL PRIOR DUE	1 oct	NOT NOT	30 00 00	24.0 0.00	00.00	00.00	00 00 00 00 00 00 00 00 00 00 00 00 00		0.08 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	2.70 0.00	0.00 0.00	0.00		200	0.00 0.00	0.00 11.6 .30		0 0	0.00	0.00 0.00	0.00 0.20	0.00 0.35	0.0	0.00 0.00	26.8 17.8 .30				0.70					
		PROGRAM QTY	2	050 07 00 00	8	0.42	0.00	.I c	00.0		0.08	0.00	00.00	0.00	0.00		3	00.00	000	70.1	0.00	11.6	0.00	0.00	00.0	0.00	0.20	0.35	0.00	0.00	TOTAL MONTHLY PRODUCTION		MANUFACTURER NAME & LOCATION	LAKE CITY AAP IND MO	OLIN, ST. MARKS, F.					_
APPROPRIATION/BUDGET PROCUREMENT AMMUNITION		FAC U E	Ξ		-		¥ 4	Τ	W W		1 M NS	M	SN W	SN M	N W		No.				S S	1 M MC	M MC	W WC		M CG	1 M CG	1 M CG		SO W		-	FAC NO.	1	2 0					)

		Taboura, Mor	PI	PROL	PRODUCTION	NOI	SCHEDUI		E E	(EXHIBIT	IBI	G' C	· . · I		i Cirili		ļ	DAT	FEBR	UARY	DATE FEBRUARY 1997		α Δ	REQUIREMENTS DD-COMP (AR)	(AR) 1	1092	KOL SYMBOL	د
PROCL	PKIAI.	APPROPRIATION/BUDGET PROCUREMENT AMMUNITION	ح ۲	ARMY/ACTIVITY	TY 1	. AMM	1. AMMUNITION	Z				7-1 CF3		1.62MM 4 BALL/1 TRA	BALL	_	URE TRACER LINKED	LIN	9								E02002	02
	Į,		1		FIS	CAL Y	EAR					FIS	CAL	YEAR						FISCAL		YEAR					-	
	o Ei	PROGRAM OTY		o, a			6	97							86							66						4E
NO.	ıα; Σ		- 1	TO AS OF	96		CALENDAR YEAR	YEAR	97					CALENDAR YEAR	R YEAR		98					CALENDAR YEAR	IR YEAR	66				- [12]
	>	FY	FY		OCT NOV	DEC	JAN FEB	MAR APR	ЮХ	ากะ พกะ	AUG SEP	OCT	NOV DEC		JAN FEB MAR APR	APR MA	MAY JUN	JUL	AUG SEP	ž LOO	NOV DEC		JAN FEB MAR	APR MAY	255	JUL AUG	SEP	œ
П		96F 97 98	66	96 96			H	$\exists$		$\prod$		H	$\prod$		П	H	$\prod$		Н		H			H		1		
				_	+	1	+	$\frac{1}{2}$	+	$\dashv$	_	_	$\dashv$		1	+	$\dashv$	1	$\dashv$	+	4		1	+	1	1	1	
1	M FMS	0.01	0	0.01 0.00	<u>o</u>		$\dashv$									$\dashv$					-			-		-	0	0.00
	M FMS	1.50	೨	0.00 1.50	9	40	_				.5	50	$\exists$			$\dashv$										_	0	00
	M FMS	0.00	9	0.00 0.00	0(		-						$\dashv$											-		_	0	0.00
		).d	.00	0.00 00.00	00		-						$\Box$			$\exists$			-							_	0	0.00
	M FMS		0.00	0.00 0.00	<u></u>		-		_	4	$\exists$		$\exists$		1	$\dashv$	$\exists$	1		1		+	1	+	1			0.00
			1	1	7	1	$\dashv$	$\exists$	$\downarrow$	$\dashv$	$\dashv$	$\downarrow$	$\dashv$	$\exists$	1	$\dashv$	$\dashv$	$\dagger$	$\dashv$	+	-		$\perp$	+		1		
1	M OTH	0.20	9	0.20 0.00	2	-	$\dashv$			4	$\exists$	$\exists$	-			$\dashv$	$\prod$	1	4		_			+		$\blacksquare$	0	0.00
	HIO M	0.10	9	0.00 0.10	0.	1	$\dashv$			-	.10	9	$\dashv$		1	$\dashv$	$\prod$	$\dashv$	$\dashv$		4		$\dashv$	+		-	0	00.0
	ндо и	0.02	0	0.00 0.02	72		-			7		$\dashv$	$\dashv$	$\exists$		$\dashv$	$\exists$		.02		_		4	1		$\dashv$	0	00.0
	ндо и	) . d	00.	0.00 00.00	<u></u>		-			$\Box$	$\exists$		$\dashv$	$\exists$	$\Box$	$\dashv$	$\prod$	$\dashv$	$\dashv$							_		0.00
	HIO M		0.00 0	0.00 00.00	00		_						$\int$			$\dashv$	_		_	_	$\dashv$		$\exists$				0	0.00
						$\dashv$	$\dashv$			7	_	$\downarrow$	$\exists$	$\exists$	$\dashv$	$\dashv$	_		$\dashv$	$\perp$	-		_	1	_		+	
				-	$\dashv$	4	$\dashv$		1			$\downarrow$	$\dashv$		$\downarrow$	+	$\downarrow$	1	4	$\exists$	$\dashv$	1	7	-		-	1	
	ALL	27.0	7	27.0 0.00		7	1		#	7	_	1	$\dashv$	$\frac{1}{2}$	1	+	4		4		4	+		+		_	9	0.00
	ALL	13.4		0.00 13.4	9	70.701	1.190	8	10 10	1.15	1.42.	_				_			_	1	1	1	$\exists$	$\frac{1}{1}$	1			0.00
	ALL	4.97	1	0.00 4.97	7/	1	-		1	$\exists$	_	4	411.41	41	41.41	.41.41	1.41	.411.	41.46	_	1	$\dashv$	1	+	1	7		0.00
	ALL	0	00.	0.00 0.00	0	7	$\dashv$		$\exists$	4	_	1	$\dashv$	$\frac{1}{2}$	1	$\dashv$	$\perp$	+	$\dashv$	$\perp$	1	$\pm$	1	+		_	0	0.00
	ALL		00.1	0.00 1.00	g	7	-	$\pm$	$\downarrow$	1	1	#	-	$\frac{1}{2}$	7	+	$\bot$	†	4	+	_	1	4	+		-		00.
			1		+		-	1	1	7	$\frac{1}{2}$	$\downarrow$	-	$\pm$	$\downarrow$	+	$\prod$	$\dagger$	4		1	1	$\downarrow$	$\dashv$		-	+	
		PACING	PACING COMPONENT:		PROPELLANT WCB46	S E	346T	$\pm$	#	7	+	#	-	$\pm$	7	+	$\bot$	$\dagger$	$\downarrow$	$\dagger$	-	1	1	+	1		+	
			1	00 0 00		+	+	$\pm$	+	Ŧ	+	1	$oxed{\top}$	$\pm$	1	+	L	$\dagger$	1	1	-		-	+		$\perp$	=	00
,		ਪ		0.0	1 2 2	+	+	$\frac{1}{1}$	+	T	+	‡	F	$\dagger$	I	+		$\dagger$	1	T	$\downarrow$		I	+	1	T		3 8
7	TOT	61		19.0 0.00		+	+	$\pm$	1	$\bot$	1	-	T	$\pm$	1	+	Ţ	t	-		$\downarrow$	$\perp$		+	1		2 9	00.0
7	TOT	00./		0.00 / 00		+	+	+	‡	T	+		$ar{1}$	+	ļ	+	$oxed{\bot}$	$\dagger$	1	$\dagger$	$\downarrow$	$\frac{1}{2}$	1	+	1	1		00.
				0.00 0.00		7	+	$\frac{1}{2}$	$\dagger$	Ţ	$\dagger$	1	ig	$\frac{1}{2}$	1	+	1	$\dagger$	$\downarrow$	$\dagger$	4	$\frac{1}{1}$	1	+	1	1	2	0.00
7	TOT TOT	<del> </del>	2.00	0.00 2.00		7	+	$\frac{1}{1}$	$\downarrow$	1	+	1	1	+	1	+	$\prod$	$\dagger$	_	+	-	+	7	1			5 응	00.00
				+	+	1	+	$\frac{1}{1}$	#	1	+	#	$\downarrow$	+	1	+	Ţ	$\dagger$	+	$\dagger$	1	1	1	+				
			+	$\frac{1}{1}$	1	1	+	$\pm$	#	1	+	#	$oldsymbol{\perp}$	+	1	+	Ţ	$\dagger$	$\downarrow$	$\dagger$	-		1	+	$\downarrow$	-	$\dagger$	
		TOTAL MONTH			-	1	5		107	- 5	- F	1.	11 11	11 11	1-7	11 41	17	=	11 16	+	$\perp$	+	1	+	#	-	+	];
		PRODUCTION		27.0119.	19.41.501.701.7UL.1	70.70	•	0	1//	1	1 2 2			7		•	•1			$\parallel$	]		]	_	-		4	00
	-				THIST.	NO.	(मिन्न	OT SHINO	L		PRC	CURE	MENT	LEAL	LEAD TIME	田田		PERM	288 C	PARTING COMPONENT	ENT	M/U)	(U/M = K/I,B)	(A)				
FAC NO.		MANUFACTURER & LOCATION	RER NAME ION		FINDUM REACH MAX HIGHER P-DAY HIGH. 1-8-5 MAXIMUM AFTER P-DAY	8-5 MB	XIMUM	REACH MAN	ا ځ ا		<b>P</b>	ADMIN LEADTIME	DTIME		_	OTAL				-	UALT	AL AL	ALT	PLT	Q.	TOTAL		
	H	CITY	AAP IND MO		0.00	13.84	47.79	2			-	oc.r	8 ,	<u>۳</u> ا	AF.	AFTER 1 OCT	ţ	INITIAL	IAL		9 ,	Π,	11	<b>~</b>	12	01		
7	5	OLIN, ST. MA	MARKS, FL	0	0.70	0.83	3	5	T	INITIAL	AL	٥	7	11		13		KEUKUEK	Z Z		٥	-			←	<b>~</b> 1		
	+			+	+	+			<u></u>	REORDER	E T	v	,	=	_	~							7	11.11.11	;			
	-			-	1	-	1		] ]			, 	1	1	$\frac{1}{2}$		7						54	COANTITY IN MILLIONS	Z Z	MILL	IONS	$\overline{}$

PAGE NO. 16 OF 27 PAGES

P-1 LINE NO. 3

SYMBOL	E02002		ç	SEP		00.00	0.00	0.00	0.00	0.00	00	00.0	00.00	00.00	00.00		00.00	00.00	0.00	00.00		00.00	00.0	00.00	00.00	00.	0.00	0.00	0.00	0.00	0.00					-	SNO
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092			02	MAY JUN JUL AUG																														TOTAL	12		Y IN MILLIONS
REQUIR DD-COM	_		YEAR	MAR APR															+											+			K/I,B)			a T GT A A T G	QUANTITY
1997	1	AL YEAR 02	CALENDAR	DEC JAN FEB													+	+	-	-			1	+	+			1	+	+			T (U/M =		11		
BRUARY	Ī	FISCAL		SEP OCT NOV		$\downarrow$	+			-						1		1												1			OMPONEN	UALT	99		
DATE	R LINKED			שני אתר																				+	-		+	+	+	+			PACHING COMPONENT		INITIAL		
ATURE	7.62MM 4 BALL/1 TRACER LINKED		01	APR MAY JUN				+	+	+	-				+	+	+		-								-			-				į		13	
21) ITEM NOMENCLATURE	2MM 4 BALI	10 01	CALENDAR YEAR	JAN FEB MAR	+											1		-															LEAD TIME	PROD. TOTAL		11	7.1
P-21)	CTC 7.621	Tecar	_	OCT NOV DEC	1	1	-									‡											1						EMENT L			2	100
(EXHIBIT				AUG SEP										+	+							+					+	+	-				PROCUE	PRIOR AFTER	AL 6	ER 6	ON COM
			8	MAY JUN JUL	+	+	+	-					+	+	+	+	-	-		10.10.10	+										,	101-101-101			INITIAL	REORDER	D-1 TIME MO
SCHEDULE	TOIL	00	CALENDAR YEAR	JAN FEB MAR APR	-							1		1	† †	-				.10.10.10.											9	N: 10: 10:	MONTHS TO REACH MAX	AFTER D-DAY			
€	FISCAL YEAR			MA MA																9 9 9							1				,	1.006 106 106 106 106 106 106 106	PRODUCTION RATES	A 47 79	1 1		
PRODUCTION TY ACTIVITY 1 AND	FISC		1 oct 99	NOT NOW	0 00		00.00	0.00	0.00		0.00	80.0	00.00	00.0		0 0	8	8	00.0	1.00.10.10	5	00.00	0.00	0.00	8	- 6	00.00	0000	0.00	0.00	7	00.10.10	DUCTIO	OST 1-8-5	0.70 0.83	+	
PRC ACTIVITY ARMY/ACTI	1170/117	ACCEP.	1 oct	00	24.0	000	4.60	0.00	0.00		0.080	0.00	00.00			2.70 0	0.00 0.00	0.00 0.00	00.0	0.00	000	11 6 0	0.00	0.00 0.	0.00 0.00	9	0000	0 35 0	0.00	0.0	,	43.511.			+		
	TITOTI U	PROGRAM QTY	Va   va	1 8			0	00.0	0.00			1		00.0					0.00	1.00	1			0°.0	0.00	1	1		0.00	0.00		j Š	MANUFACTURER NAME	LAKE CITY AAP IND MO	MARKS, FL		
LION/BUI		PROG	υν υν υν	_		00.0	4.60				0.08	0.00	00.00	$\frac{1}{1}$		2.70		0.00			5	11.6	0.00		$\frac{1}{1}$	- 6	2000	0.35			TOTAL MONTHLY	PRODUCTION	ANUFACT	KE CITTY	OLIN, ST.		
APPROPRIATION/BUDGET PROCUREMENT AMMUNITION		FAC U	<u>:</u>	+	Ψ		W W	MA	M A		SN W	N N	N N	NG M	:	MSOF		M SOF		MSOF	N MC	W WC	M MC		W W	5				DO M			FAC M	+	$  \cdot  $		

YMROI.	502005	02002	<	(r	SFP R	-	00-0	0.00	0.00	0.00	0.00	0		00.0	0.00	0.00		0.00	0.00	0.00	0.00	0.00			1	0.00	0.00	0.00	0.00	0.00			- 1	00.00		,,				SNS
REQUIREMENTS CONTROL SYMBOL.	fi.	1			JUL AUG SI																				+						+	+	+			TOTAL	12	12	, F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TIN MILLIAMS
IREMENTS				02	MAY JUN																				1														OTTANTED T	- [
REQU	á l			AR YEAR	EB MAR AFR	-	+						_	-										1	+	+			4		+	+	+		(U/M = K/LB)		11 1		VELLO	TOX
766		L YEAR	02	CALENDAR	DEC JAN FEB		+				1	-	<u> </u>	<del> </del>										+	+	+	+			+	$\frac{1}{1}$	+	+			~	-	1		
RITARY 1		FISCAL			OCT NOV																														OMPONEN	UALT	9	9		
DATE FERRITARY 1997	TAWED 1	LINKED			JUL AUG SEP	+	+		-			_	-	-	-	_							_			+				+	<u> </u>	-	-		PACING COMPONENT		INITIAL	REORDER		
	T 6	TRACER LINKED		01	MAY JUN																								+								3			
	ITEM NOMENCLATURE	ВАПП/1	0.1	CALENDAR YEAR	SB MAR APR		-	-					-		L										-		+	+		-	-				LEAD TIME	TOTAL	AF LEX	13	13	-
]	TEM NON	AL YEAR		CALEND	DEC JAN FEB																	1		+	+	+	+	+	+	+	+		+		NT LEA	E SE		11	11	
T P-21	P-1	FISCAL			SEP OCT NOV	+	+	L					-																		1				CUREME	PRIOR AFTER	3 '	9	6 2	ľ
(EXHIBIT					מתר אתכ פו	+							+	1								101		+	+	+	+	+	+	+	+	+	-	24	PR	<b>₹</b>  Ĕ.	-	INITIAL	REORDER	
μũ				00	R MAY JUN		-					-										0.10.10									1		0 10 10 10	10 + 10 + 10		À.		T.	NE.	
SCHEDUL	NOTE	3	00	CALENDAR YEAR	JAN FEB MAR APR	+		-				+	-									.10.10.10.1			+	+	+	+		+	+	+	101	1 10 1 10 1	S NONTHS T	M AFTER D-	2	- 1		
		FISCAL YEAR		CALES	വ്യൂ																	10.10.10.10		PROPELLANT WC846F	1						1		100000000000000000000000000000000000000	10 T - 10	PRODUCTION RATES REACH NAX	-5 MAXIM	٦,	0.83 1.00		
PRODUCTION	7TTV 1	FISC		As or 99	OCT NOV		0.00	8	00.	00	8		3 8	200	8	8		00.0	8	00	00.	1.00.10.1		SOPELLAN		0.00	0.00	0.00	0.00	00	$\dagger$	+	100	7 40 7 100	ODUCTI	I MUM	<u> </u>	0.70	+	
PRO	IVITY MY/ACTIV	11/8/11		24 TOCT	-r	99 99	0.01		0.00 0.00	0.00 0.00	0.00 0.00	00 0000	0 10 0 00	0 02 0 00	0.00 0.00			27.00	13.4 0.00	4.97 0.00	0.00 0.00	0.00		NENT: P		38.0	19.0	7.00 0,	0.00	2.00 0.00			1	40.4	1	-				
	TON AR	TON, AD	AM QTY		-	98 99				00.0	0.00		+		00.0	0.00			-		00.0	1.00		PACING COMPONENT:	1	$\frac{1}{1}$	+	+	0.00	2.00		-	THEY	z	TREE NAT	& LOCATION	LAKE CITY AAP IND MO	MARKS, FL		
	N/BUDG	APPENDENT .	PROGRAM		FY	96P 97	10	50	0.00		1	000	100	0 0				27.0	13.4	4.97				PACI	1	38.0	9.0	0.7			1		TOTAL MONTHLY	RODUCTIO	NUFACTU	& LOCAL	E CITY ?	ST.		
	APPROPRIATION/BUDGET ACTIVITY DESCRIBEMENT AMMINITION ARMY/ACTIVITY	OKEMEIN I	o El	œ;	+	+	M FWS D	EWS I	₽	M FWS	M FMS	S SEC			H.L.O	НШО М		ALL 27	ALL 13	ALL	ALL	ALL				Ē	E E		K TOT	K TOT				Δ,	-	$\dashv$	LAK	OLIN,		
	APPRO	TROUGH TO THE	FAC				-						-1		1											7	7	7		2					FAC	)       		7		

SHEET
JUSTIFICATION
ITEM
BUDGET

DATE

											끄고	FEBRUARY 1997	/ & £ T	
APPROPRIATION/BUDGET ACTIVITY	UDGET ACTIVI	ίΤΥ			İ		P-1	P-1 ITEM NOMENCLATURE	VCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	UNITION, ARM	IY/ACT	IVITY 1.	AMMUN	ILTION		CTG 7	'.62MM BAL	CTG 7.62MM BALL M80 LINKED/M13	113			(E0)	(E02003)
	FY 96	و	FΥ	76	FY	96	FY	66	FV	-	> 4	10	01 00 EV	. 0
OUANTITY										+		7	. 75	
(Thousands)	9475		5692		-0-		11	11122	11131		11191		11302/11297	297
		$\dagger$												
COST (In Millions)	\$ 5.4	€.	3.2		-0- \$		·	6.4	\$ 6.5	ধ্য	6.7		\$ 6.9/7.1	

#### DESCRIPTION:

This cartridge is for use in the Machine Gun Series M60, M73, M219, and M240. The straight ball M80 configuration is used in support of training. The bullet consists of a gilding-metal steel jacket with a lead-antimony slug. The cartridge case is brass and the bullet is unpainted. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price.

## JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1979

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 7.62MM BALL M80 LINKED/M13

PCN:PO2QM1D0C4Z
DATE: FEBRUARY 1997
NSN = 1305-00-892-2330
(E02003)

	FY 96 (QTY	89.	8929600) FY 97	7 (QTY		) FY 98	YTQ) 8		) FY 99	VTQ)		_
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ΔΙΑ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.PROPELLANT WC846 (LB) 3.LINK M13	8929600 61615 9108192	0.42 5.83 0.02	3735 359 170									
SUBTOTAL			4264		-							
1. PRODUCTION SUPPORT   148   148   148   148   148   148   148   148   148   148   148   148   148   148   148   148   148   149	PORT   IURANCE   IURANCE   INSPORTATION   LOSS SURCHARGE	******	148 46 46 41 496 737 **********************************	**	**	**	**	***************************************	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * *	
												1

P-1 ITEM NO. 3 PAGE NO. 20 of 27

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 7.62MM BALL M80 LINKED/M13

DATE: FEBRUARY 1997 NSN = 1305-00-892-2330 (E02003)

PCN:P02QM1DOC4Z

	FY 96 (QTY	5.	545600)	FY 97 (QTY	56	5691885) F	FY 98 (QTY	, <sub>F</sub>		FY 99 (QTY	E	11122054)
ELEMENT OF COST QM: EACH	YTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.PROPELLANT WC846 (LB)	545600	0.45	247	5691885	0.42	2381				11122054	0.43	4754
\ <u>\</u>	556512	0.02	283	5805723	0.02	2719				11344496	0.02	5514
PRODUCTION SUPPORT : 1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPO 6. CAWCF GAIN/LOSS SURCHA	PORT   ENGINEERING URANCE TESTING NSPORTATION STOCK SUPPORT LOSS SURCHARGE		9 177 177 177 177			108 4 30 26 318						564 144 63 40 195
SUBTOTAL			7.7			486			- <b>'</b>			876
TOTAL P-1 LINE ITEM: 0.66 360:	i 	99.0	360!	***************************************	0.56	3205!	****	* * * * * * * * * * * * * * * * * * * *	*	***************************************	*******	6390

P-1 ITEM NO. 3 PAGE NO. 21 of 27

PCN PO2QM1DOD4Z

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT		HISTORY & PLANNING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-(	1305-00-892-2330	330	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CTG 7.	62MM BALL N	CTG 7.62MM BALL M80 LINKED/M13	3	1 1 1	(E02003)	03)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)		; ; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! !	! : :
FY 1996 OLIN CORP	SS/CPAF	IOC	OCT 96	APR 97	8929600	.42			
FY 1996 OLIN CORP.	SS/CPAF	IOC	FEB 96	APR 97	545600	0.45			
FY 1997 OLIN CORP.	SS/CPAF	IOC	96 AON	OCT 97	5691885	0.42	YES	ON	
FY 1999 CLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	11122054	0.43			
2. PROPELLANT WC846 (LB) **									
FY 1996 OLIN	SS/FP	IOC	JAN 97	MAR 97	61615	6.50			
FY 1996 OLIN	SS/FP	IOC	SEP 96	JAN 97	3765	5.83			
FY 1997 OLIN	SS/FP	IOC	AUG 97	SEP 97	39275	5.83	YES	ON	
ST. MARKS, FL FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	76743	69.9			

REMARKS:

\*\* PACING COMPONENT

P-1 ITEM NO. 3

PAGE NO. 22 of 27

PCN PO2QM1D0D4Z

		PROCUREMENT HISTORY & PLANNING	r HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-00-892-2330	0-892-23	30	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	FIVITY 1. AMMUNI	TION	CTG 7.	62MM BALL M	CTG 7.62MM BALL M80 LINKED/M13			(E02003)	)3)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	S PEC REV REQD	IF YES WHEN AVAIL
3. LINK M13				; ; ; ; ; ; ; ;	 		) ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:
FY 1996 VALENTEC WELLS COSTA MESA CA	C/FP	IOC	96 LOO	MAR 97	9108192	0.02			
FY 1996 VALENTEC WELLS	C/FP	IOC	JUL 96	MAR 97	556512	0.02			
FY 1997 TBS FY 1999 TBS	C/FP C/FP	IOC	MAR 97 JAN 99	MAY 97 JUL 99	5805723 11344496	0.02	YES	NO	
REMARKS:		 		1 1 1 1 1 1 1		!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1 1

TBS - To Be Selected

P-1 ITEM NO. 3 PAGE NO. 23 of 27

y and v	BP TATTON /BI	Please managed to the state of	PRODU	PRODUCTION S	SCHEDUL	回	(EXHIBI)	P-21)			DATE FEBR	FEBRUARY 1997	7	REQUIREMENTS DD-COMP (AR)	0109	TROL SYMBOL
PROC	UREMENT AMMU	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	VIII Y/ACTIVIT	Y 1. AMMUN	TTTON		<u>.,,</u>	P-1 ITEM	ITEM NOMENCLATURE	TURE						
	,			FISCAL YEAR	4R		<del> </del>	0.16 /.0	FISCAL VERB	30 LINKE	/M13					E02003
FAC	U E PRO	PROGRAM OTY	. ∡		97		-	ו הסכים	1 EAR 00			FISCAL	YEAR			
NO.	<b>∝</b> :		TO AS OF 1 OCT	96 car	CALENDAR YEAR	97			CALENDAR YEAR	ăo			CALENDAR VERE	000		₹ F
	FY	FY FY		OCT NOV DEC JAN	JAN FEB MAR APR	MAY JUN JUL	AUG SEP	OCT NOV DEC	and and and MAT.							
	96P 9	97   98   99   9	96 96			<del> </del>				MAY JUN	JUL AUG SEP	OCT NOV DEC	JAN FEB MAR	AR APR MAY	JUN JUL AUG	SEP R
1	M A 6.60	9	6.60 0.00					1	+	+		1			-	
1	MA 9.50		0.00 9.50		2	207	- <del>2</del> 2	-	1	+	7	+				0.00
Ţ	ابرا	70	0.00 5.70					15	0.	-	1	+				00.00
		00.0	0.00 0.00		-	1	1	48.48	48.48.48	48.48	48.48.42					0.00
1	M A	11.1	0.00 11.1			1					1					0.00
				-	<del> </del>	+	†	+		1	<del> </del>	+				11.1
1	M SOF 0.20		0.00 0.20	20		+	+	+		+		1				
	SOF		0.00 0.00		-		#			+						0.00
		0.00	0.00 0.00			+			  -  -	+		-				0.00
1		3.50	0.00 3.50			-	+	-		#	-	7			$\dashv$	
	M SOF	0.00	0.00 0.00			-	+	1		+	1	29.29.29	.29.29	.29.29.29.	.29.29.29	.3
								+		#		+	+			0.00
	M MC 0.00	0	0.00 00.00						  -  -		1	+				
1	M MC 115.7	0	15.7	33 .30	19.43	1.1	251	5	5	5	5	+	<del> </del>			0.00
1	M MC 6.0	09.9	09.9 00.0					55.55	55 55 55	1 1 1 1 1 1		+	+			0.00
1	M MC	5.20 0	0.00 5.20							60.00		1,000	-	-	1	0.00
1	M MC	6.10 0	0.00 6.10							+		-	.43.43.	43.43.43.	43.43	470.00
											1					6.10
1	M FMS 0.04	0	0.04 0.00							+	1	+				
	M FMS 0.30	0	0.00 0.30				.30			1	1	 				0.00
	M FMS 0.00		0.00 0.00							+	1		+		1	0.00
	M FMS	0.00 lo	0.00 0.00							+	1		+		+	0.00
	M FMS	0.00 0	0.00 0.00										+			0.00
																0.00
-	의	9	0.02 0.00									-	<del> </del>		1	-
	OTH 0.30		0.00 0.30				08.							†  -		0.00
	M OTH 0.01		0.00 0.01								5	-		1		0.00
	M OTH	D.00 10.	0.00 00.00				L.	-  -				-	+	+		0.00
	M OTH	0.00 0.	00.0 00.0							-			+	1		0.00
												-	+	1	1	0.00
	TOTAL MONTHLY PRODUCTION		6.66 64.2.53	53 .30	1.191.11	.40.90.72	쮀	32.02.02.	. 72. 02. 02. 02. 02. 02. 02. 02. 02. 02. 0	2.02.02.1		72.72.72	.72.72.73	72 77	77 77 77	1011
														3	17.17	7./118/
FAC NO.	MANUFACTURER & LOCATION	CTURER NAME		PRODUCTION RATES HOWTHS TO MINIMUM 1-0-E NAVING AFTER D-DAY	S MONTHS TO REACH MAX AFTER D-DAY		PROCUF ADMIN 1	PROCUREMENT L	LEAD TIME		PACHNG COMPONENT (U/M = K/LB)	<b>THONENT</b>	(U/M = K)	/LB)		
1	LAKE CITY	LAKE CITY AAP IND MO		11.08 38.24	24 0		PRIOR 1 OCT	AFTER 1 OCT P	PROD. AFTER 1	OCT	TNTTAL	UALT	ALT	PLT	TOTAL	
7	OLIN, ST	OLIN, ST MARKS, FL	0.70	0.83	1 1		9	2	11 13		REORDER	ט ע	Ξ;	ᠳ,	12	
L				l	ı	INITIAL					ONDER	٥	11	•	1.0	_

ă		-	REC	
TIME		AFTER 1 OCT	13	13
LEAD TIME		PROD.	11	11
CUREMENT	EADT IME	AFTER 1 OCT	2	2
PROCUR	ADMIN L	PRIOR 1 OCT	9	9
1			INITIAL	REORDER

	TOTAL 12 12	QUANTITY IN MILLIONS
	1	Y IN
/LB)	PLT 1	UNANTIL
U/M = K	ALT 11 11	
COMPONENT (U/M = K/LB)	UALT 6 6	
PARPING	INITIAL	
П	E	<del>-</del>

PAGES PAGE NO. 24 OF27 P-1 LINE NO. 3

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 10°2	E02003	<u> </u>	<u>د</u> (د	SEP R		0	00.0	0.00	780.00	17.2			0.00	0.00	0.00	00.00	5076.0												7817.2					0	22
. S	"	1			++	+	+-	+-	72.7	+	-	$\vdash$	+	4	+	-	2	-	+	-	╀	Н	_	-	$\vdash \mid$	_	+	-						OUANTITY IN MILLIONS	1
ZITRO				AUG	+	+	-	-	ı •ı	-	—		4	4	4	4	4	_	$\downarrow$	↓	<u> </u>		4			_	$\perp \downarrow$	$\perp$	7.72		TOTAL		٥,		1
10.01		1		JUE	11		1	L	.72		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	$\perp$	_	$\perp$		$\perp$	$\perp$	$\perp$			L								.72		TOT	12	12	~ 'z	
(AR)				35					.72																				72					Ε.	
REME MP (			66	MAY.					.72		Π		$\Box$	Т	T		T		Т	Г	П		1	T		$\top$	$\prod$	1	72		€±			Ϋ́	
100:				APR	17		$\top$	$\top$	72		$\top$		7	$\top$	T	1	1	十	1	T	$\sqcap$		$\top$			+	$\dagger \dagger$	+	.72	! !	e) PLT	7		ŢŃ	
20		4	ž 5	MAR	++	+	+-	T	72	十	$\top$	$\vdash$	十	+	+	+	+	+	╁╌	t	H	-	+	+	$\vdash$	+	+	+	72		] }			OUZ	1
			AR YE	E .	++		+	+	72	+	+	-	+	+	+	+	╁	+	┿	╀	$\vdash$	+	+	+-	$\dashv$	+	-	+-	72.7	1	ALT	11	11		
1		EAR 99	CALENDAR YEAR	JAN FEB	╁┼	╁	+	╀	.72.	+	+	-	+	+	+	3	+	+	╀	H	Н	-	+	+	+	╬	+	-		PACTING COMPONENT (11/M - V/IB)	4 A				П
126	İ	YE	5		++	+-	+	+-	2	$\dashv$	╀	-+	$\dashv$	+	+	4	+	+	┼-	┞	Н		+	4-4	$\dashv$	4-	++	$\perp$		=	) -				
1997		FISCAL YEAR 99		200	╂═╂	+	+	+-	72.72	$\perp$	$\vdash$	_	+	+	۱,	ᆗ	+	+	1	_	$\sqcup$	$\downarrow$	$\perp$	$\perp$	1	_	11	_	17	1	UALT	، و	٥		
DATE FEBRUARY		SC		NON			$\bot$	_		$\perp$	Ш	_	$\perp$	$\perp$	1	۵	1	_	1	_	Ц	_		$\perp$	$\perp$	_	Ш	$\perp$	17		; 5				
AUA WA		H		ष्ट्	11	$\perp$	1_		.72		Ш		$\perp$	$\perp$	$\perp$	$\perp$	$\perp$	$\perp$			Ш	$\perp$					Ш		12	A M	;				1
EBI				das		$\perp$	7	ના •							١	۵	i										П		9	ا د		H 6	Ę	j	1
TE	13	3	١.	AUG			2	•] •				П				T	Т	Ţ			П		T	П			П		9		i	ĮĮ.	5	Ì	,
DA	×			Jur			2					$\exists$	$\top$	$\top$	1	T	T	T	T		П	$\top$	1		十	$\top$	f	1	흥	EWA FAVO		INITIAL	5	l	PACEC
	KE		86	2.0g	$\top$	$\top$	15	팅	П	$\top$	${}^{\dagger}$	寸	十	1	T	$\dagger$	十	╅	T		H	$\dagger$	1	+	+	+		+	용		_				
	RE		0,	жж	11	十	=	믕	H	+	$\Box$	$\dashv$	$^{\dagger}$	+	+	╁	+	╁	$\vdash$	-	$\dashv$	+	+-	╁	+	╫	⊢-	+-	8			8			7,0
	P-1 ITEM NOMENCLATURE CTG 7.62MM BALL M80 LINKED/M13			APR	†+	+	15	병		+	H	$\dashv$	+	╁	╁	+	+	+	+	-	H	+	+	H	+	+	$\vdash \vdash$	+	.72.38.72.02.02.02.02.02.02.02.02.02.02.02.02.9.72 <u>.72</u> .72		14	2 2	;	13	25 OF 27
			ž.	A A	+-+	╁	=	믕	H	+	Н	$\dashv$	+	╁	╁	╀	+	+-	-	$\vdash$	Н	+	+	╂╌╂	$\dashv$	+-	-	$\perp$	훵	PROCUREMENT LEAD TIME	TOTAL	FTE	ł		25
	EN 3AL	86	CALENDAR YEAR	£	╁┼	╁	=	등	H	+	H	-	+	╁	╀	╀	+	+	H	Н	$\vdash$	4	$\bot$	$\sqcup$	_	_	$\sqcup$	44	a	Ē	<u>'</u>	4	-	$\dashv$	
		AR	CEND	JAN FEB	++	+	15		H	_	$\vdash$	4	4	$\bot$	$\bot$	╀	$\bot$	4	┞-		Ц	_	$\bot$			$\perp$	Ш	Ш	2	Q A	1	1 PROD.	.	11	ģ
_	M 1	YE	Š	_	++	4-	15	U1	$\sqcup$		$\sqcup$	4	4	4	4	1	ļ		L			$\perp$		Ц		$\bot$		Ш	2.0	=	1	ž  -	1		PAGE NO.
-21)	ITE 7.	AL		200	╂-	4	냠	11 <del>–</del> 11	$\sqcup$	_	$\sqcup$	4	4	1.	$\perp$	╀	1	_	Ш	Ш	$\sqcup$		1				Ш		0. 0.	L	E E				PA
	_1 G	SC		NON		_	8	1 1	$\Box$	_	Ш	_		,		┸		$\perp$	$\sqcup$				$\perp$						2.0	EME	LEADTIME	의 °	۱ ۱	7	
i i	4	<u>E</u>		ğ	$oxed{oxed}$	┸	1_				Ш			$\perp$	$\perp$	$\perp$	L	$\perp$											2.0	UR	2 8			9	٣
(EXHIBIT				SEP		┸	3.7	£ I				$\perp$		5	7							Ī	Т	П					7.	<u>R</u> OC	PRIOR	<u>۱</u>			1
1B				AUG			2.3									Г	Γ				П	Т		П			П		٣.	Δ.			AL	ER	2
티				Z.		Т	12	П	T		П	T	T	T	T	T	T	T				$\top$	T	$\sqcap$			1			ĺ			INITIAL	REORDER	INE
回			97	J.CN	П		5			T	П	T	1	T	T	T	T	1	П		$\exists$		1	П	+	1	$\top$	$\dagger \dagger$	형				INI	띮	P-1 LINE NO.
1 1				MAY JUN		1	1.4		$\top$		П	十	1	42	T	T	T	+	П		寸	$\top$	†	H	_	+	$\vdash$	+	邿	L	Щ				ما
SCHEDULE			Ì	APA APA	$\sqcap$	1	]=		$\neg$	$\top$	H	$\top$	T	$\dagger$	$\dagger$	十	+	+	H		十	+	╁	H	+	+	$\vdash$	+	릐	2	34		Τ		
밉			<u>ş</u>	ğ		+	191	H	十	+		+	15	ᆰ	╁	t	$\dagger$	+	H		$\dashv$	+	╁	╁┼	+	+	$\vdash$	+1	191	THE	55	_   _			
田	집	97	CALENDAR YEAR	<u> </u>		+-	'	H	十	+	H	+	$\pm$	+	十	╁	+	+	Н	$\dashv$	-	+-	╁	╁┼	+	+	$\vdash$	+	$\exists$	NON	\$ <u>F</u>		1	Ц	
泛	H	AR	LEND	JAN FEB	╁┼	╁	-	Н	$\dashv$	+	9	+	╁	3	╀	╀	╀	+	Н	$\dashv$	+	+	╀	$\vdash$	+	+-	$\vdash$	+	$\dashv$	ES	ğ	38.24			
		ΧE		_	$\vdash$	╁╌	30	Н	$\dashv$	+	WC846	+	+	-	╀	╀	╀	+-	Н	$\dashv$	+	+	╀	$\vdash$	-	_	-	$\dashv$		RAT	AXI.	8 -	1		
PRODUCTION	7 1. AMMUNITION	AL		V DEC		+	٣.	Н	$\dashv$	+	골	+	+	+	+	╀	+	+	Н	_	$\dashv$	4	-	$\vdash$	4	4_	Щ	44	.30	z	MINIMUM 1-8-5 MAXIMUM AFTER D-DAY	<u> </u>	1	H	1
	ij	OSI	8	OCT NOV	₩.	+-	3	Н	+	-	PROPELLANT	+	+	+	╀	╀	╀	4_	Ц	_	4	$\bot$	4	$\sqcup$	4	$\perp$		Ш		TIC	=	11.08			١
밁	2	_	_	§	1	20						4	1	1	Ļ	1.	$\perp$	1	Ц	_	_	1		$\sqcup$	$\perp$			Ш	2	DC.	Σ		+	$\vdash$	
	Ž	and TVE	AS OF	96		0.20	25.8	12.3	8.70	17.2		0	5 2	104 050	180	126	1					ŀ			1				4.2	301	<u> </u>	0 0			١
K.	<u> </u>			10,			0	0			_					,	╁	十	Н	ᅥ	$\dashv$	┪	+	╂╂	+	╁	$\vdash$	+	9 9	<u>a</u>	ΕR	_	4	Ш	
Id	ARMY/ACTIVITY	ACCEP. PRIOR	1 0CT	96		99.9	0.00	0.00	0.00	9		1	21.0	0 0			3	ı	H					$  \  $	ı		lĺ		6.66 64.2.53	l r	,,				
			- 1	$\top$	П		П	П		7	ਨੂੰ		T	T	T	126		T	П		十	1	$\top$	$\Box$	十			$\top$	Ĭ	TAKIN	1	힏	]		
	۲ ۶	ΔŢ	į	7 E		_	Ш		15	1	8	$\perp$	$\perp$	$\perp$	Ļ		1	丄	Ц				1_	Ш	$\bot$	Ш					2	割"	_	$  \  $	1
	급합	¥	i	7 8					2		9				180						1								HEY	120		AP 0			1
		PROGRAM QTY	-		$\vdash$	T	Н	۳.	~	$\top$	PACING COMPONENT:	$\dagger$	十	†=		t	†	T	H	7	十	+	$\dagger$	$\dagger \dagger$	+	$\dagger \exists$	+	+	TOTAL MONTHLY PRODUCTION	Ē	& LOCATION	CT MADIC	5		
į		'nRO	-	F 7	$\sqcup$	100	<u></u>	77	$\downarrow$	$\perp$	A.	4,	۱.,	ς Σ	3	1	1	1	Ц	$\dashv$	$\dashv$	$\perp$	$\perp$	$\sqcup$	$\perp$	Ш		Ш		12	ĺŽÌ	티팅	2		
2	<b>3 3</b>	щ	i	т <u>т</u> 96Р		6.86	25.8					ŗ	2 6																7017 280[		3 08	ω Ej	1		
E	計		L		$\vdash$			그	<u>.</u>	٦				+-	Ē	1 =	1	T	П	寸	$\dashv$	$\dagger$	T	$\sqcap$	T	$\top$	+	$\top$		\$	i	LAKE CITY AAP IND MO			
1		OD ET (				ALL	ALL	ALL	달:	ALL		Ē	_					$\perp$	Ц		$\perp$	$\perp$	L			┸				-	$\dashv$	+	+	$\vdash \vdash$	
<u> таранун кандак</u>	PROCUREMENT AMMUNITION	5:	Σ	Ŧ		F	П	극	Ŧ	Ŧ	H	7	4	4 8	18	1 2	F	+	H	$\dashv$	$\dashv$	$\mp$	+	H	Ŧ	뮈	F	Ħ		ر	ا. پ				
100		FAC										6	٦,	م ا د	٦	۱ ۲	•													6	2 2 2	<u> </u>	1	$\bigsqcup$	
K	ζ	F4;	Z.		Ш		Ш				Ц	$\perp$	1		L	_	_		ш				1			لل									

											T																	
		:	PRO	PRODUCTION	LIOI		SCHEDUL	DUL.	G:	(EXHIBI	IBI.	7	P-21)					DATE	FEBR	FEBRUARY	1997	7		REQUIREMENTS DD-COMP (AR) 1092	EMENTS P (AR)	1092	ROIL SYMBAIL	MR. J.
APPRO	PRIATIC	¥	LIVITY									P-1	间间	ITEM NOMENCLATURE	ENCL	ATUF	E						T					l
PROCI	JREMENT	PROCUREMENT AMMUNITION, A	ARMY/ACTIVITY	VITI	1. A	/ 1. AMMUNITION	TION					5 -	G 7.6	CTG 7.62MM BALL M80 LINKED/M13	ALL 1	M80 I	INK	D/M1	~								ш	E02003
			ACCEP. BAL		SCAL	YEA	Α.					FIS	FISCAL YEAR	YEAR	;					FIS	FISCAL	YEAR						
NO.	⊒K ⊃∑	PROGRAM ÇIY	10 P	<u> </u>	96	CALE	CALENDAR YEAR	9	00					Ol	10		5					05		5	,			<u> </u>
	Ь	FY   FY   FY	1 8		R	DEC JAN	183	FEB HAR APR	MAV TIN	2	atte cee	Į	2001				3				_	_	CALENDAR TEAR		_		-	
	6	+	66 66	Т				-				3		Š.	FEB MAR	APR MAY	200	JUL A	AUG SEP	ž V	NOV DEC	_	JAN FEB MAR	APR MAY	AY JON	305	AUG SEF	
-1	M A 6.	6.60	6.60	0.00				L		F	$\perp$	1	F	$\perp$	1	+	$\downarrow$	$\dagger$	$\perp$	+	+	#	+	1	+		+	6
		9.50	9.50 0.	0.00						F	$\vdash$	ļ	$ar{\Box}$	$\pm$	Ţ	+	1	+	-	$\dagger$	+	1	+		+	Ţ	+	
	A	5.70	5.70 0.	0.00				-		F	$\vdash$	F	$\vdash$	$\pm$	1	+	$\downarrow$	$\dagger$	_		+	1	+	$\downarrow$	+		+	
	MA	0.00	0.00 0.	0.00	$\vdash$			L		L	$\vdash$		$\vdash$	$\perp$	I		-	t	L	t	+		+		+	I	+	
	M A	11.1	0.00	11.1.90	.90.90	90.90	8	90.90	8	90.90	106	100	$\vdash$	+	1	+	_	$\dagger$	I	╁	+		+	$^{\dagger}$	+		+-	
						F					-		$ar{\parallel}$	$\perp$		+		t		$\dagger$	-	İ	+			1	-	
-1	M SOF D.	0.20	0.20 0.00	00				L		F	$\vdash$	L	F	L	T	+		$\dagger$	Ţ_	╁	╀		$\vdash$		-	t	-	00
	M SOF D.	.00	0.00 0.00	00	$\vdash$			L				L		L		+	lacksquare	$\vdash$		╁┈	╀		$\perp$		┡		╁	
	M SOF	0.00	0.00 0.	0.00	Н			igdash			$\vdash$			$\vdash$		-					-		+		-		╁	0
1	M SOF	3.50	3.50 0.00	00							-		_			$\vdash$		-		$\vdash$	L		-		-		<del> </del>	0
	M SOF	00.00	0 0.00 0.00	00							-					-		$\vdash$	L	$\vdash$	<u> </u>		-		$\perp$	L	<del> </del>	00.0
				-			$\exists$			П	Н		F			$\vdash$				$\vdash$	-		-		-		-	
	M MC D.	00.0	0.00 00.00	00				_						_				-		_	_		-					00
1	M MC 15	5.7	15.7 0.	0.00				Ц	Н							$\vdash$				$\vdash$	-						1	00.0
	M MC	6.60	6.60 0.00	00												-		H		H			L		-		-	00
1	M MC	5.20	5.20 0.		$\dashv$		-				$\mathbb{H}$			H		H				-	_		-		-		_	0.00
	M MC	6.10	0 0.00 6.10	10.51	. 51, 51	1.51	.51	51.51	51.5	51.51	51.49	6													L		-	0.00
				7				$\exists$	$\dashv$		-					Н					L							
-1	M FMS 0.	.04	0.04 0.00	00	1		$\dashv$		$\dashv$											H	_		_		-		-	00.0
	M FMS 0.	.30	0.30 0.00	8	_						$\dashv$					_					_		_				-	000
	M FMS	0.00	0.00 00.00	00			$\dashv$					_				_		H		$\vdash$	L		L				╁	00
	M FMS	0.00	0.00 0.00	00							$\dashv$					$\vdash$				-	_		-				╀	00
	M FMS	00.00	0.00 0.00	00			_				_									$\vdash$	_				-	L	-	
	1				$\dashv$											Н					_				-		+	
	읙	.02	0.02 0.00	8	$\dashv$	1	$\dashv$	$\downarrow$	+	1	$\dashv$	$\exists$	$\exists$	$\dashv$		$\dashv$					Н						-	00.0
-1	9	.30	0.30 0.00	8	$\dashv$	$\downarrow$	$\dashv$	1	$\dashv$	1	$\dashv$		7	$\dashv$		4		$\dashv$		-					_		<u> </u>	0.00
		0.01		8	$\dashv$	4	+		$\dashv$		$\dashv$		1	$\dashv$		-		$\dashv$							L		-	2
	M OTH	0.00	8	8	$\dashv$	4	$\dashv$	1	$\dashv$		$\dashv$	1	$\dashv$	$\dashv$		$\dashv$									-		$\vdash$	
	M OTH	0.00	00.0000	8	+	1	+	1	+	1	+	$\pm$	1	+		+		+		_					ļ		-	00.0
		1 No.		1	寸		$\dagger$			- 1		$\frac{1}{4}$	1	+	1	$\dashv$		-		$\dashv$	4				_			_
	PA PA	PRODUCTION	53.7 17	17.21.41	4	.40.40	택	.41.41	4	.41.41	.41.7		$\exists$	$\dashv$		$\dashv$		$\dashv$		$\dashv$							-	_
									[	ĺ								REMAR	\$		İ							
FAC	MAN	MANUFACTURER NA	NAME PROMINI	PRODUCTION RATES REACH MANAMENT MINIMUM 1 P. D. D. D. D. D. D. D. D. D. D. D. D. D.		RATE	S S	HS TO H MAX R D-DAY			OR F	PROCUREMENT I	TIME	LEAD TIME	MIL	ш		PACI	ည် လ	MPON	ENT	м/n)	PACING COMPONENT (U/M = K/LB)	LB)				
	LAKE	LAKE CITY AAP IND MO	T	0.00 11	11.08	38.24	0 47		_		E S	GR PA	E S	PROD.	AFTE	AFTER 1 OX	OC.T	INITIAL	ΓAΤ,		OALT 6		AL.I. 11	PLT		TOTAL	ت	
1	OLIN	OLIN ST MARKS FT.	+	0.70	0.83	1.00	1					9	~	11		13		RECRUER	. G.		י ע		<u> </u>	→ +		17		
,	<u> </u>  -	** /Ammma *A /			1		ŀ		<u> </u>	INITIAL			_			) 1		NE CE	Viii.		D		∄			12		

QUANTITY IN MILLIONS

PAGE NO. 26 OF 27 PAGES 13

P-1 LINE NO. 3

INITIAL

P-21) P-1 ITEM NOMENCLATURE CTG 7.62MM BALL M80 LINKED/M13	FISCAL YEAR 02	ANG SEP OCT NOW DEC ANA PER MAP AND MAP THE WAY THE WA	THE TOTAL TO			00.00	41.41.7		0.00	0.00	00.0	0.00	0.00						.41.7	PACING COMPONENT (U/M = K/LB)	PROD. AFTER I OCT INITIAL 6 11 1	6 2 11 13 REORDER 6	6 2 11 13	בס בס רי רוא מואמו נ
	FISCAL YEAR 00	V FY FY FY FY and 1 oct 1 oct oct 1 oct oct 1 oct oct 1 oct oct 1 oct oct oct oct oct oct oct oct oct oct		ALL 6.86 6.86 0.00	25.8	ALL 12.3 12.3 0.00	17.2 0.00 17.21.41.41.41.41.41.41.41.41.41.41.41.41.41	PACING COMPONENT: PROPELIANT WCR46	K TOT 47.0	K TOT 185 185	2 K TOT 85.0 85.0 0.00	K TOT 126 E	יים ויים ויים ויים ויים ויים ויים ויים						PRODUCTION 53.7 17.21.41.41.41.41.41.41.41.41.41.41.41.41.41	FAC MANUFACTURER NAME PRODUCTION RATES PROFIES NAME PROCUREMEN NAME PROCUREMEN NAME PROCUREMEN NAME OF LOCATION MINIMUM 1.6.5 LOCATION APPER D-DAY	LAKE CITY AAP IND MO 0.00 11.08 38.24 0	0.70 0.83 1.00 0 INITIAL 6		

BUDGE	BUDGET ITEM JUSTIFICATION RECORD	'IFICATION I	RECORD		DATE:	Februa	February 1997	
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	CTIVITY:		AMMUNITION	P-1 ITEM NOMENCLATURE: M993 CTG 7.62mm Armor Pie	P-1 ITEM NOMENCLATURE: M993 CTG 7.62mm Armor Piercing	cing		F47500
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY (THOUSANDS)	1670	1031	1013	981	0	0	0	0
COST (IN MILLIONS)	3.9	2.0	2.0	2.0	0	0	0	0

consists of a tungsten core penetrator contained in an aluminum cup and jacketed by tombac (similar to standard gilding metal, 90% copper, 10% zinc) weapon and travels to the target. Total cartridge weight is 362.6 grains (23.5 grams). Current 7.62mm ammunition is capable of penetrating 1/4" armor clad steel. The shaped tungsten core provides enhanced armor penetration, representing a key departure from the current 7.62mm ball service round. DESCRIPTION: The M993 7.62mm Armor Piercing (AP) Round is currently produced by Bofors Garl Gustaf AB of Sweden. The projectile assembly plate at a distance of not greater than 100 meters. The M993 7.62mm AP Round is capable of penetrating a 7mm thick high hardness armor (HHA) plate at a distance of 500 meters from the muzzle of the weapon. This corresponds to 1/4" armor plate at a distance of 550m. This item is code "A" manufactured by Bofors and the primer is manufactured by Dynamit Noble. Upon firing, the projectile assembly is propelled from the muzzle of the The Bofors CGAB produced cartridge utilizes a conventional brass cartridge case with a Berdan primer. The propellant is a single base type approved SMCA and will be procured as actual cost in FY98.

## JUSTIFICATION:

targets at ranges 2 to 3 times that of currently available ammunition. The FY98 and FY99 quantities build a war inventory in accordance with the Army's The FY98 and FY99 procurements are intended for use against current and future light armored targets. The M993 offers the capability to defeat these procurement goals.

Acquisition Manager: Product Manager Small Arms

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 4 PAGE 1 OF 5

Page 1 of 5 Page Exhibit P-40

WEADON SYSTEM COST ANAL VEIS	NOIS								
	55		<ul> <li>Appropriation/Budget Activity Title/No</li> </ul>	/Budget	B. WEAPON MODEL/SERIES	EL/SERIES	C. MANUFACTURER NAME	ER NAME	D. DATE
EXHIBIT (P-5)			Procurement Ammunition, Army/Activity 1.	ımunition,	POPULAR NAME M993 CTG 7.62mm Armor Piercing	Armor Piercing	BOLOKS/LANE CITY AMMUNITION PLANT	ANT	February 1997
Weapon System	Ident.	FY96	1,670,000	FY97	1,031,250	FY98	1,012,500	FY99	981,250
Cost Elements	epoo	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
HARDWARE 1. M993 7.62mm ARMOR PIERCING		1.82	2561	1 86	1536	1 90	1543	1 04	1527
2. M13 LINKS		0.03	54	0.03	29	0.03	25	0.03	29
3. M62 7.62mm TRACER		0.40	140	0.45	87	0.43	87	0.44	98
4. LOAD, ASSEMBLE & PACK		0.17	298	0.18	184	0.18	185	0.19	183
SUBTOTAL		2.42	3053	2.49	1836	2.54	1844	2.60	1825
PRODUCTION SUPPORT  1. PRODUCTION ENGINEERING			383		137		125		129
2. QUALITY ASSURANCE			40		25		25		25
SUBTOTAL			423		162		150		154
NONRECURRING COST			C						-
2. INITIAL PRODUCTION TEST			447					-	
			· · · · · · · · · · · · · · · · · · ·						
SUBTOTAL			467						
TOTAL		2.36	3943	1.94	1998	1.97	1994	2 02	1070
							Evhibit D # 187		1313

Exhibit P-5 Weapon System Cost Analysis Page 2 of 5 Pages

	BUDGET P	ROCURE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	TORY A	ND PLAN	INING EX	HIBIT (P-5	(¥	A. DATE	February 1997
B. APPROPR PROCUREME	B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	1. AMMUNITION	N.			C. P-1 ITEM	C. P-1 ITEM NOMENCLATURE M993 CTG 7 62mm Armor Piercing	JRE		F47500
Cost ElemenU FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Load, Assemble & Pack FY96 II ake Cit	le & Pack Il ake Citv Armv Ammunition Plant	SS/CPAF	iOC	May 06	90 [11]	000	0.17			
FY96	Lake City Army Ammunition Plant	SS/CPAF	8 8	Jun 97	Feb 98	1,150,000	0.17			
FY97	Lake City Army Ammunition Plant	SS/CPAF	၁ ဇ	Jun 97	Feb 98	1,031,250	0.18			
FY99	Lake City Army Ammunition Plant	SS/CPAF	3 8	Nov 98	Aug 98 Apr 99	1,012,500	0.18			
M993 7.62mm	M993 7.62mm Armour Piercing									
FY96	BOFORS, Sweden	SS/FFP	ARDEC	Mar 96	30 Inc	480,000	1.77	Yes		Jan 96
FY96	BOFORS, Sweden	SS/FFP	ARDEC	Jun 97	Jan 98	920,000	1.86			
FY97	BOFORS, Sweden	SS/FFP	ARDEC	Jun 97	Jan 98	825,000	1.86			
FY98	BOFORS, Sweden	SS/FFP	ARDEC	Oct 97	Jul 98	810,000	1.90			
FY99	BOFORS, Sweden	SS/FFP	ARDEC	Oct 98	Mar 99	785,000	1.94			
M13 Links										
FY96	201	C/FP*	ည	96 unf	96 unf	612,000	0.03	Yes		Jan 96
FY96	201	C/FP	ဝင္	Jun 97	Jan 98	1,173,000	0.03			
FY97	100	C/FP	၁၀	Jun 97	Jan 98	1,051,875	0.03			
FY98	100	C/FP	<u>0</u> 0	Oct 97	Jul 98	1,032,750	0.03			
FY99	200	C/FP	<u>0</u> 0	Oct 98	Mar 99	1,000,875	0.03			
M62 7.62mm Tracer	racer									
FY96	Lake City Army Ammunition Plant	SS/CPAF	<u>0</u> 0	May 96	Jul 96	120,000	0.40	Yes		Jan 96
FY96	Lake City Army Ammunition Plant	SS/CPAF	<u>0</u>	Jun 97	Jan 98	230,000	0.40			
FY97	Lake City Army Ammunition Plant	SS/CPAF	စ္	Jun 97	Jan 98	206,250	0.42			
FY98	Lake City Army Ammunition Plant	SS/CPAF	0C	Oct 97	Aug 98	202,500	0.43			
FY99	Lake City Army Ammunition Plant	SS/CPAF	IOC	Oct 98	Apr 99	196,250	0.44			
D. REMARKS										
DD Form 2446-1, JUL 87	16-1, JUL 87				ITEM NO.					
		Previc	Previous editions are obsolete	olete		ы.	SxhibitP-5A	Procurement Page	History 3	ExhibitP-5A Procurement History and Planning Page 3 of 5 Pages
								)		2262

FY 96/97 BUDGET PRODUCTION SCHEDIN E	RODIIC	Į.		FOIL F		E			TOTAL NOMENON ATTENT																		
						7.EG 7	62mr	ABM	CTG 7 62mm ARMOR PIERCING		9			U	77500	ç			Date			•	!				
	f	L	f	1 100							2			-	4/3	٥					Febru	February 1997	266				
				ACCEPT. BALANCE	BALANCE			-	뜐	FISCAL YEAR	EAR		97			Н				FISC/	FISCAL YEAR	AR		86			_
ITEM/MANUFACTURER/			PROC	PRIOR	DUE	ł	۵	$\dashv$				CALE	CALENDAR YEAR	? YEA	<u>د</u>	3	26				ľ	CALE	CALENDAR YEAR	YEAF	86 2		∢
PROCOREMENI TEAK		<u>د</u> >	È	10cT	AS OF 1 OCT	00-	z o >	¬ <b>∢ z</b>	шш	≥ ∢ ¤	4 a a	<b>≥</b> ∢ ≻	¬ ⊃ z	70-	<b>Α</b> D 6	S H O	z 0 :	O 3 (	¬ ∢ 2	тша	∑ ∢ 0	< □ 0	Σ∢>	70:	۷ D C	SШS	⊢ ш [
Lake City Army Ammunition	FY96P	✓	1.7	0.5	1.2	T	$\vdash$	╄	╀		L		-	,	╀	╁	╀	,	2	十.	7 0	+	╁	┿	╁	1	ř
Plant	FY97	4	0.		0.1	T	$\vdash$	-	_				T	$\dagger$	+	+	Ļ			┿	2 0	$\dagger$	+	+	$\perp$		
	FY98 ,	V	1.0		0.	-		$\vdash$	-	_			$\dagger$	+	+	+	$\downarrow$			-	3	+	+	+	0	4	
	FY99 ,	<	1.0		1.0	H	-	H	-	L			T	$\dagger$	+	+	$\downarrow$	Ŀ		+		$\dagger$	+	+	3		,
	+-	╁				$\dagger$	+	+	1			I	$\dagger$	$\dagger$	+	+	1			$\dagger$	+	+	+	┿	-		2
							+	-	$\perp$	L			$\dagger$	+	+	1	-			1	+	+	+	+		İ	
							$\vdash$	$\vdash$	_				T	$\dagger$	+	+	1			$\dagger$	$\dagger$	$\dagger$	+	+	-		
		H					-	_	$\vdash$				T	$\dagger$	$\vdash$	+				T	$\dagger$	$\dagger$	+	╁			
						$\vdash$	$\vdash$		L	L				T	-	$\perp$	-			$\dagger$	$\dagger$	$\dagger$	+	+			
		H					-	_	_	Ĺ				-	-	+	_			T	$\dagger$	$\dagger$	+	+			
						$\vdash$	-	L	$\vdash$				T	T	+	+	_			†	$\dagger$	+	+	+	-		
		_				$\vdash$	$\vdash$	_	_				+	$\dagger$	+	-	_			$\dagger$	+	$\dagger$	+	+	-		
		_				$\vdash$	_		$\vdash$						+	+	L			T	$\dagger$	+	+	+	-	Ì	
		$\vdash$				$\vdash$	_		L				1	$\vdash$	$\vdash$	$\perp$	_			T	$\dagger$	+	+	+			
						Н	H	H						$\vdash$	$\vdash$	$\vdash$				T	$\dagger$	$\dagger$	+	+	-		
		$\dashv$				$\dashv$			Ц					_	$\vdash$	_				$\vdash$		-	-	_			
		-	1			$\dashv$	$\dashv$	4	_					$\dashv$	Н							$\vdash$	-	┝			
		+				+	+	4	4	Ţ			7	$\dashv$			Ц				-	_	$\vdash$	_			
		+				+	+	+	_				1	$\dashv$	$\dashv$	_				H			_	 			
		+	+				+	+	$\downarrow$	$\int$			+	$\dashv$	$\dashv$	4							-				
TOTAL	+	+	1,	2	,	+	+	4	$\downarrow$	$\int$		$\dagger$	$\dagger$	+	+	+	_			$\rightarrow$	$\dashv$	$\dashv$	H				
TO TO T	Control of the Contro	_	4.7	lc:n	4.2	+	+	+	+	<u> </u>	ŀ	:	+	$\dashv$	$\dashv$	+	4			1.2	0.				0.5	0.5	1.0
						) b	х O >	7 <b>4 Z</b>	гпе	<b>Σ &lt; α</b>	< 0 C	Σ ∢ ≻	r D Z		<b>∀⊃</b> Ω	00+	z o >	<b>о</b> ш о	¬ ∢ Z	тшп	ΣΚα	4 d u	¬ ⊃ z	70-	∢ ⊃ (	νшα	
MANUFACTURER'S	PRODUCTION RATES	CTIC	N RA		REACHED						PROC	CURE	PROCUREMENT LEAD TIME	LEAD	TIME					ł	<b>†</b>	Į₹				1	
NAME & LOCATION	MINIMUM		1-8-5	MAXIMUM								ADMI	ADMIN LEAD TIME	DTIN	Ш		MANU-	-1	Ľ	TOTAL		G	Quantities are in millions	ties	ro ii		0
	SUST	_									<u>a</u>	PRIOR		AF	AFTER	Ϋ́	FACTURING	ING	₹	AFTER		i			<u> </u>		<u>.</u>
Lake City Army	00.00		13.8	38.6								1 OCT	$\neg$	1	1 OCT		TIME	,	-	1 OCT		ote: Pr	Note: Production rate is for the	n rate i	s for th	a	
Ammunition Plant						INITIAL	ابِ				3	3 MO		21	2 MO		9 MO			11 MO	П	.62mm	7.62mm ammunition family	oition fa		,	
Independence, Mo						ZEOF	DER	(Previo	REORDER (Previous Source)	6		3 MO	_	2	2 MO		5 MO	_		7 MO							
DD Form 2445, JUL 87	Previor	is editi	Previous editions are obsolete	obsolete				<u>-</u>	P-1 SHOPPING LIST	'ING LIE	ST										1						
								Ħ	ITEM NO.	4										11.	₹xhih	).tp	Exhibito-21 products	(		•	
																				•	11110	ノー・ニー・	14 T7	ogno	100	400	7:17

ExhibitP-21 Production Schedule

Page 4 of 5 Pages

	ŀ	٦		ωшσ	H		_		+	-	$\vdash$						$\dashv$			_														ωшα			h d
	ŀ	┪		<b>∢⊃</b> ७	H	-			+	+	$\vdash$	$\vdash$		$\dashv$		$\dashv$	_			Н					$\dashv$			$\dashv$			-			ى ⊂ ∢			ExhibitP-21 Production Schedu
			R 0	¬ ⊃ ¬	Н		$\vdash$		+	+-	-	$\vdash$		$\dashv$	-	$\dashv$	-		$\dashv$		Н		-			$\dashv$	-	$\dashv$	$\dashv$		$\dashv$			ר כ י			ictio
	February 1997		YEA	っって	Н	H			$\dagger$	╁							$\dashv$								_	$\dashv$	$\dashv$			-	_			7 D Z			rodu
	nan		DAR	∑∢≻	H	-	$\vdash$		$\dagger$	+	$\vdash$					$\dashv$		$\dashv$	$\dashv$			$\dashv$	-	1	$\dashv$	-	+	-		1	$\dashv$	+		<b>Σ</b> ∢≻			-21
İ	ᆵ	FISCAL YEAR 01	CALENDAR YEAR	< 0 €	Н				╁	†	-				$\dashv$	$\dashv$						_	-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	$\dashv$		< 0 G			bitp
l		Ľ		∑ ∢ Ľ	Н				+	+-	┢				7	1		1				7	1					+	┪	7	7	7		Σ∢α			Exhi
		SCA		- H B	╁	-	$\vdash$		$\dagger$	+	-				┪	1	$\dashv$	$\dashv$				+	$\dashv$	1	$\dashv$	+	+	$\dashv$	Ť	1	+	_		и m w			
Date	ı	-		7 K Z	T	-	$\vdash$		$\dagger$	$\dagger$	$\vdash$				$\dashv$	1	1	+				┪	$\exists$	+	┪	$\dashv$	7			┪	$\dashv$		$\dashv$	¬ ∢ z			
۲	8	ı	_	O H O					+	╁					┪		7		┪			1	7	7		$\forall$	1	7	7	$\dashv$	_		┪	υшυ			
	F47500			z o >	H		H		$\dagger$	t	$\vdash$	Н		$\exists$		$\dashv$	1		$\dashv$			1		+	+	+		_	┪	┪		+	$\dashv$	z o >			
	٦			o ɔ ⊢	H	┢			$\dagger$	$\vdash$	H		Н		$\dashv$	_	$\dashv$	$\dashv$	$\dashv$			$\dashv$	7	1	$\dashv$	7	┪	+	$\dashv$	$\dashv$	+	+	-	0 U F			
	ı	┪	8	сшσ	П				$\dagger$								1	1					_				7	+	7	7	+	+		o m r			
cing				۵ ر ≽	П		$\vdash$		$\dagger$			П			1	7	$\dashv$	1				1	7	1	1	7	7	1	7	1	+	7	1	ان د ∢		İ	
Pie	z		YEA	רכי	П	H	T		T	T		П			1	1	1		1			7	1	7	1	1	7	$\dashv$	1	+	7	$\dashv$	+			١	
P-1 ITEM NOMENCLATURE   M993 CTG 7.62mm Armor Piercing	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION		CALENDAR YEAR	γDΖ	П				T								T									7	1		7	1	┪	$\dagger$	7	<b>¬ ⊃ Z</b>			
ΨΨ	MW.	٩	CALE	≥ < ≻	П				T	T		П						7		7			1	7		1	$\dashv$	7			7	$\dagger$	7	Σ ∢ ≻		ı	
.62m	<u>-</u>	FISCAL YEAR 00		< G &	П				T	T		П			7		7		$\exists$			7	1	1			7	T	T	1	7	7	7	< 0 €			
<u>1</u> 67	⋛	ٳڐۣ		≨∢ແ					Ī							ĺ								٦				7	٦	٦	┪	1	٦	≥ < œ			
၁င	¥ ₹	FISC		F E B						Π					T				╗							T			7		1	7	1	w m 00			
M99	₽ S			າ <b>∢</b> Z														٦													╗	7	٦	¬ ∢ z			
ı,		ſ		о ш o																								7				٦		O W O			
ATUR	ş	١		z o >																					Ī					1		1		z o >			ts.
NG.	Ž	╛		0 U F																														0 U F			NG LI
NO.	MEN		8	αшσ																														o m o			P-1 SHOPPING LIST ITEM NO. 4
TEM	2		¥۱	∢⊃७	Ш				L	L																								∢⊃ຶ			P-1 SHOPP ITEM NO.
9	PR <sub>S</sub>		CALENDAR YEAR	- D -	Ц							Ц																						~ D ~			
				ァコZ	Ш				L			Ш																						7 D Z			
İ	1		췽	<b>≥∢≻</b>	Ц		0.5												╛									_					0.5	Σ < ≻			
	1	FISCAL YEAR		< 0 €	Ц		0.5		L						_				_														0.5	< 0 C		į	
<b>.</b>		ξ		≥ < α	Ц					L		Ц		_			_	_	_			_			$\bot$	$\perp$								≽∢α			
Ĭ	Ì	Z		тпю	$\sqcup$	_			L	L		Ц						$\perp$								$\bot$		_				_		# W W			
里		L	_	¬ ∢ Z	Ш			-	Ļ.	Ļ		Ц		_				_							_	_		_	_					¬ ∢ z			
200	١		_ }	<u>о ш о</u>	Ц				L	L				_	$\perp$		1					4		4	_	_	$\perp$	$\perp$	_	_		_		O M O			
ē			ŀ	z o >	Ц							Ц		_	_			_				$\downarrow$			$\dashv$	_	_		_	$\downarrow$	_	_		z o >			
22.	1			00-	Ц									_	_		4		_					_	_	_		4			_			0 v ⊢			
FY 99 BUDGET PRODUCTION SCHEDULE			ITEM/MANUFACTURER/	PROCUREMENT YEAR		Lake City Army FY99	Ammunition Plant																										TOTAL				DD Form 2445, JUL 87

- < F Ⅲ K

ExhibitP-21 Production Schedule

Page 5 of 5 Pages

	RIIDGE THEM TITATION	<u>F</u>	H	TITO	PTTT	E K	T C T				DATE				
		4		2	/ 	Ţ	T CIN	VALUE I	-		Įt,	FEBRUARY 1997	7 1997		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	YTI'					P-1 ITE	EM NOME	P-1 ITEM NOMENCLATURE						T
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, AR	MY/ACTIV	VITY 1.	AMMUN	ITION		CTG 9MM ALL TYPES	ALL TY	SEG					(EA3000)	0)
	FY	96	FY	26	FY	86	FŸ	66	FΥ	00	λd	10	01 00 FV		, ,
QUANTITY	-0-	ı	-0-		-0-		-0-		0-	8	-0-		7	-0-/	S
										-11	•				
COST (In Millions)	ጭ	4.6	1.0	37	\$ 4.2	•	\$ 2.7		\$ 2.8		\$ 2.9		₩.	\$ 3.0/3.1	

DESCRIPTION:

This budget line includes 9MM ALL TYPES.

P-1 SHOPPING LIST ITEM N 5 PAGE NO. 1 of 9



THOUSANDS)
(DOLLARS IN
MALYSIS
COST
AMMUNITION (

AMMUNITION,	ACT WITHOU											
1	ARMY/ACTIVITY 1. AMMUNITION	: ITY 1. AM	MOITINDM	CTG. 9MM.	CTG. 9MM. ALL TYPES (FA3000)	S (EA3000	_		DATE	FEBRUARY 1997	7.6	
	Y	96		FY	97		FY	86		FY	66	
SSN/ ITEM:	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
(E05210) CTG 9MM BALL 3	30872	0.15	4580	7858		666	28169	0.15	4229	17771	0.15	2724
TOTAL P-1 LINE ITEM			4580			666			4229			2724
DD FORM 2448, AUG 89				P-1 ITEM NO.	NO. 5	M	PAGE NO. 2	OF 9		EXHIBIT B	P-5	

		ļ										DATE		
	BUDGET IT	H	TTE	⊼ ט	10S	EM JUSTIFICATION SHEET	CAT	NOI	SHE	ET			4	0
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	LIVITY						P-1 ITI	EM NOMEN	P-1 ITEM NOMENCLATURE		111	FEBRUARI 1997	1881
PROCUREMENT AMMUNITION, ARMY/ACTIV	JUNITION,	ARMY /.	ACTIVIT	ITY 1. AMMUNITION	AMMUN	ITION		CTG 9MM	CTG 9MM BALL M882	882				
	FY	96		FY	97	FY	98	FY	00	Ņ	6	> 1	0.1	, C
OUANTITY											3		70	70 70
(Thousands)	m	30872	7	7858		28169	6	17771	1	18133		18228		1842(
B														
(In Millions)	₩	4.6	ស	1.0	- 01	\$ 4.2		ζ.		ر د د				€

03

Ϋ́

18420/18416

3.0/3.1

w

2.9

ŧŊ.

2.8

2.7

(E05210)

#### DESCRIPTION:

agreement (STANAG) 4090 for 9mm ammunition. Its primary usage is with the M9 personal defense weapon (PDW) and is This item will be procured This round consists of a brass case, a jacketed lead bullet, a two-piece boxer-type primer, and a double base propellant. The cartridge 9mm, ball M882 conforms to all United States requirements and NATO standardization compatible with all NATO 9mm weapons. This item is Code A, approved for service use. through the CAWCF at a fixed standard price.

## JUSTIFICATION:

This is a training standard item used in both training and combat. FY 98/99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1985

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1305-01-172-9558 (E05210)

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 9MM BALL M882

	FY 96 (QTY	3087	30871992) FY	YTQ) 76 Y	785	7857921)	FY 98 (QTY		28169307)	FY 99 (QTY		17771048)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	VTV	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M2A1	30871992 31490	0.11 5.62	3455	7857921 8016	0.10	773	28169307 28733	0.12	3485	17771048 18127	0.13 5.86	2244 106
SUBTOTAL			3632			814			3650			2350
PRODUCTION SUPPORT			!   			· <u>·</u>						
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPOL	FNGINEERING   SURANCE   TESTING   ANSPORTATION   STOCK SUPPORT   1,058 SURCHARGE		121 4251 1021 6641			84 84 84 84 84 84 84 84 84 84 84 84 84 8			373 42 42 129			240 6 27 17 84
			948			185			579			374
**************************************	**********	0.15	4580	0.13	0.13	1666	0.15 4229	0.15	42291	****	******	2724

P-1 ITEM NO. 5

PAGE NO. 4 of 9

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	RY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	ITEM NOMENCLATURE	TURE	NSN = 1305-0	1305-01-172-9558	558	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TTY 1. AMMUNIS	rion	CTG 9M	9MM BALL M882				(E05210)	10)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	S PEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)	; ; ; ; ; ; ; ; ; ;	} { { { { { { { { { { { { { { { { { { {	 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 5 6		; ; ; ;
FY 1996 OLIN CORP FAST ALTON 11.	C/FP	IOC	JAN 96	FEB 96	30871992	0.11			
FY 1997 TBS FY 1998 TBS FY 1999 TBS	C/FP C/FP C/FP	1000 1000 1000	JAN 97 JAN 98 JAN 99	AUG 97 JUL 98 JUL 99	7857921 28169307 17771048	0.10 0.12 0.13	YES	NO	
2. BOX METAL M2A1									
FY 1996 BROCKWAY STANDARD HOMEDVILLE CA	C/FP	IOC	OCT 95	JAN 96	31490	5.62			
FY 1997 TBS FY 1998 TBS FY 1999 TBS	C/FP C/FP C/FP	10C 10C 10C	JAN 97 JAN 98 JAN 99	JUL 97 JUN 98 JUN 99	8016 28733 18127	5.07	YES	ON ON	
REMARKS:			           	 			 	i : : : : :	; ; ; ;

TBS - To Be Selected

P-1 ITEM NO. 5 PAGE NO. 5 of 9

NP-CCMP (12.42.42.42.42.42.42.42.42.42.42.42.42.42		ATURE	FISCAL YI	98 CALENDAR YEAR 99	APR HAY JUN JUL AUG SEP OCT NOV DEC JAN FEB HAR APR MAY JUN JUL AUG SEP		00.00	00.00	0	2.42.42.42.42.42.42.42.42.42.42.42.42.42	1.51.51.513.4		0.00		.01.01.01.0	.21.21.21.21.21.21.21.21.21.21.5	1.21.21.210.4		0.00	0.00	.28.28.28.28.32	.17.17.17.17.17.17.17.17	.40.40.403.60		0.00		1.91.91.91.9	. 91. 91.	.71.71.716.37		0.00		.85.85.85.85.85	0.00.00.00.00.00.00.00.00.00.00.00.00.0	04.94.04.03.16.26.26.26.26.26.26.26.26.66.06.04.04.08.08.08.08.04.04.04.08.08.08.08.08.08.08.08.08.08.08.08.08.	REMARKS	TIME	TOTAL	AFIER I	<b>-</b> 1	-
	766		i	CALENDAR	_					. 42.42.					<del> </del>	.21.21.						.17.17						.91.91.					00	00.00	26 26 2						
1997 AL YEAR 99 CALENDAR DEC JAN FEB 1.21.21.21.2 1.91.91.9 6.26.60.60			FISC		8					42					-	1.21	$\frac{1}{1}$					.17						<u>8</u>	1	$\int$	-	1	3		26.26						
FISCAL YEAR OCT NOW DEC JAN FEB 12.42.42.42.42.42.42.42.42.42.42.42.42.42	DATE				AUG.					. 42. 42.		1	+		- 1	•	_					1		+				1.91.		+		+	15		26.26	REMARKS					
		TURE		ă	MAY JUN									- 1	:1		1				.28					- 1	히					1	ž.		<del>   </del> g					0.	
98  308  308  309  312  32  32  32  32  32  32  32  32  3		MENCLA'	80	DAR YEAR					0	Г				+	<u>.</u>	+	+	<del> </del>			.28		_	1		$\dashv$	<u> </u>		1	+	+	-	ž	+	1 8		D TIME		T		-
ATURE  ARM MAY JUN JUL MUG SEP    1.01.0  1.01.0  1.91.91.9  1.91.91.91  1.91.91.91  1.04.03.16.26.26  REMARKS  1.04.03.16.26.26.26  1.04.03.16.26.26.26  1.04.03.16.26.26.26	21)	ITEM NO 9MM BALI	AL YEA	CALEN	) E				팅	$\vdash$			1	+	ᄒ						8.28.28						히				#	5	.85.85		6.05.05						_
DATE FEBRI  NOMENCLATURE  98  OLIENDA VENR  98  OLIEAD TIME  PREMARKS  DATE FEBRI  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.42.42.42  2.82.82.82.832  2.82.82.82.82.832  2.82.82.82.82.832  2.82.82.82.82.832  2.82.82.82.82.82  2.82.82.82.82  2.82.82.82  2.82.82.82  2.82.82.82  2.82.82.82  2.82.82		P-1 cre	FISC		ğ				0.00				$\dagger$	+	라	+	1				.28.28.2				1		<u>8</u>		+	+	+	1	Š		05.05		ROCUREM ADMIN LEAD	PRIOR AF	3 ,		,
1 TEM NOMENCLATURE  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  98  CALEMAR VEAR  1.01.01.01.01.01.01.01  1.21.21.21  1.91.91.91.91.91.91  91.91.91.91.91.91.91  91.91.91.91.91.91.91  1.91.91.91.91.91  1.91.91.91.91  1.91.91.91  1.91.91.91  1.91  1.91  1.	XHIB				JOI.			0	1.0												.28.28						1.91.9					_	•		1 18					NITIAL	RORDER
STHIBILT P-21   P-1   ITEM NOMENCLATURE   P-1   ITEM NOMENCLATURE   98   98   98   98   98   98   98   9	迢			97	ž			808.					٠.	⇌	+	+		+		40						.14.1		$\frac{1}{1}$				20	+	-	4 4		233			- T	<u>~</u>
CEXHIBIT P-21   P-1   The Nomenclature	CHED	TION	4R 97	ENDAR YEAR				1.48.7						1.02.5	1	1				01.0						.03				1	1	7.			10 138		ES MONTHS	ATM OF TEX			+
CEXHIBIT P-21   P-1   The Nomenclature		. AMMUN	CAL YE		) E		. of . o						1	핡	+	1	<del> </del>	1	-	ᅱ						.502			<u> </u>	$\frac{1}{1}$	+	$\frac{1}{1}$	+	$\frac{1}{1}$	9		ON RAT	8-5 MAXIN			
SCHEDULE (EXHIBIT P-21)  OUTTON  CTG 90M BALL M882  OLIGINAL WAS ALL M882  OLIGINAL WAS ALL M882  OLIGINAL WAS ALL M882  OLIGINAL WAS ALL WAS	DDUCT	(VITY 1	FIS	L		П	3.701.01	17.98.0	7.90	28.2	17.8		7	ᄒ	1.0	14./	14.0	1	99.	8	3.40	2.00	. 80			5	72.8	72.8	3.50	1			0.5	1.00	2466 33	70.00	RODUCT NTMOM	TSI.	- 1	ı	+
1. AMMUNITION   SCHEDULE (EXHIBIT P-21)	PR	LIVITY RMY/ACT	ACCEP.	ę,	1 00.1	96	27.9	13.0	0.00	00.0	0.00		16.4	2.50	00.0	00.0	9		4.50	1.70	0.00	0.00	0.00			2.00	0.00	0.00	0.00		10.0	1.50	00.00	00.0	0.00 01 01	10:17		S			1
PRODUCTION SCHEDULE (EXHIBIT P-21)  TUTUTY  TOTAL TOTAL  TOTAL TOTAL  TOTAL TOTAL  TOTAL TOTAL  TOTAL TOTAL  TOTAL		< '≻	۱ >		FY FY	66 86				28.2	17.		1			7	14.					2.00	4.8					22.8	8.5		1		7	-	1	_			اـ		
PRODUCTION SCHEDULE (EXHIBIT P-21)  ACTIVITY		ON/BUD(	95000	PROGR	FY FY	96F 97	1.6	0.9	7.90			1	6.4	- 1	11.0	$\frac{1}{1}$		-	.50	.40	3.40				2.3	8.0	22.8				0.0	1:		<u> </u>	OTAL MON	באסמסכו דר	NUFACT	& LUCA			
PRODUCTION SCHEDULE (EXHIBIT P-21)  AARMAACTIVITY  AARMAACTIVITY  ACTIVITY		PRIATI UREMENT	so t		т						MA		NS	Т	N NS	M NS	M NS		M SOF 4	M SOF 6	M SOF	M SOF	M SOF		M MC	M MC 1	M MC	M MC	M MC		AF.	Т	M AF	A 45	¥	~		+	OLIN	130 B	$\frac{1}{1}$
Second Color   Production   P		APPRO PROCU	Į.	NO.			1	1	2		2					T	7		1	1	2	2	2		1	1	2	2	2					7 (	7		FAC	2		~	

PRODUCTION SCHEDULE	(EXHIBIT P-21)	DATE FEBRUARY 1997 DD-COMP	REQUIREMENTS CONTROL SYNBOL DD-COMP (AR) 1092
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTG 9MM BALL M882		E05210
BAL	FISCAL YEAR 98	FISCAL YEAR	ız≪
W R CALENDAR YEAR V TOCT 1 OCT 1 OCT 1 OCT 1		CALENDAR YEAR 99	
96P 97 98 99 96 96	JUN JUL AUG SEP OCT NOV DEC JAN FEB HAR APR HAY JUN JUL AN	AUG SEP OCT NOV DEC JAN FEB MAR APR HAY	JUL AUG SEP
M CG 0.00 0.00 0.00			00.0
CG 2.50			00.0
2 M CG 0.00 0.00 0.00 0.00 2.10	36	26 26 26 26 26 26 26 26 26 26	6 24
M CG 3.10 0.00		07:07:07:07:07:07:07:07:07:07:07:07:07:0	.26.26.26
1 M OTH 10.3 1.00			C
M OTH 1.10			0.00
M OTH D.00 0.00 0.00 M			00.00
00.00			0.00
85.1 81.4 3.701.01.01.0.70			C
79.4	0.		0.00
ALL 55.3 0.00 55.3	4.05.05.05.05.05.05.04.94.04.04.03.1		
59.9 0.00	00000	0.30.30.30.30.30.30.30.30.30.30.30.30.80.8	5 05 05 041 8
PROBUCTION 104 2547.13.82.44.7 10 138.55.46.	.46.04.05.05.05.05.05.05.04.94.04.03.16.56.56.56.56.56.56.56.	56.56.56.56.56.56.56.56	56.56.66.85
MANITEACTITIBED NAME   PRODUCTION RATES   MONTHS TO	PROCUREMENT LEAD TIME	KS	0.440.00.00.00
OLIN, E. ALTON, IL 1.00 6.00 16.00	A LEADTIME TO TO TO TO TO TO TO TO TO TO TO TO TO		
2 TO BE SELECTED 1.00 6.00 16.00 0 I	INITIAL 6 4 6 10  REORDER 6 4 6 10	VITANIALIO	
i-d	P-1 LINE NO. 5 PAGE NO. 7 OF 9 PAGES		I IN MILLIONS
			)

DATE FERRIARY 1997 ID-COMP (AR) 1092		FISCAL YEAR	01 CALENDAR YEAR 02 (1)	JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		00.0	00.0	00.0	0.00			00.0	0.00	00.0	00.0	0.00		0.00	0.00	0.00	00.00	0.00	00.0			00.00	0.00	0.00		REMARKS		OCT		COLLEGE ME VIPILITY ME VIPILIT	
CTION SCHEDULE (EXHIBIT P-21)	1. AMMUNITION	FISCAL YEAR FISCAL YEAR 01	AR 00 CALENDAR	JUL AUG SEP OCT NOV DEC					.51.51.51.51.51.51.51.5					.21.21.21.21.21.21.21.80				40, 40, 40, 40, 40, 40, 40, 40					/T: /T: /T: /T: /T: /T: /T: 03					8,76,98,98,98,98,98,98,98,92	295 42.54.84.84.84.84.84.84.84.3	Distribution of the second	PRODUCTION RATES worms to PRODUCE EMEN TO TIME ADMINISTRATING FOR THE PORT OF THE PORT OF THE PROPERTY OF THE	1 OCT 1 OCT PROD. AFTER 1	1 1	REORDER 6 4 6 10	P-1 LINE NO. 9 PAGE NO. 8 OF
PRODUCTION	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMI/ACTIVITY	S ACCEP. BAL	2	FY FY FY	96 99 99 99	Σ ≥	A 7.90 7.90	M A 28.2	A 17.8 4.44 13.41	256	1 M NG 10 0	M NS 11.0 11.0	M NS 14.7 14.7	M NS 14.0 3.60 10.41	M SOF 4.50	M SOF 6.40	SOF 2.00	M SOF 4.80 1.20 3.60.	M MC 12.3	M MC 18.0	M MC 22.8 22.8	M MC 22.8 22.8 0.00	2 M MC 8.50 2.13 6.3/.	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M AF 10.5	Σ	MAF 7.50 7.50	M AF 11.7 2.94	PRODUCTION 295 42.54		FAC MANUFACTURER NAME PRODUC	OLIN. E. ALTON, IL	TO BE SELECTED		

TION SCHEDULE (EXHIBIT P-21)  FEBRUARY 1997  FOOTBERING STATE  DATE  DATE  DDAT	CTC 9MM BALL M882		CALENDAR YEAR 01 CALENDAR YEAR 01 CALENDAR YEAR 02	DEC JAN FEB HAR APR HAY JUN JUL AUG SEP OCT NOV DEC JAN FEB HAR APR HAY JUN JUL AUG SEP OCT NOV DEC JAN FEB HAR APR HAY JUN JUL AUG SEP				0.00		0.00				0.00	00.0					9.4.6					5.05.05.05.05.05.04.66	DDACTIDEMENT LEAD TITME REMARKS	ADMIN LEADTINE PRIOR AFTER 1 OCT 1 PCT.	16.00 0 INITIAL 6 4 6 10	REORDER 6 4 6 10	
回	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	FISCAL	M R 100T 1 OCT 1 O	FY FY FY FY OCT NOV DEC JAN FEB MAR AFR MAY JUN JUL 1965 97 108 100 100 100 100 100 100 100 100 100	26 26 26	M CG D.00 0.00 0.00 0.00	cg 2.50	M CG 0.00	3.10 3.10 0.00	7 CS 2.32.20,20.20,20.20,20,20,20,20,20,20,20,20,	1 M OTH 10.3 10.00	M OTH 1.10	0.00 0.00	OTH D.00	M OTH 0.00 0.00 0.00	ATT. 85 1	79.4	55.3 55.3	78.3 78.3	ALL 59.9 15.1 44.85.05.05.05.05.05.05.05.04.6					PRODUCTION 313 44.85.05.05.05.05.05.05.05.06.6	TO STITES MOTHS TO THE PROPERTY TO THE PROPERTY OF THE PROPERT	AFTER D-DAY	TO BE SELECTED 1.00 6.00 16.00 0 INITIA	REORDER	ON GMI I 1-d

	SHEET
}	JUSTIFICATION
	ITEM
	BUDGET

DATE

											ĮĮ.	FEBRUARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	IVITY					P-1 ITEM NOMENCLATURE	1 NOMEN	ICLATURE						Т
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, A	ARMY/A	CTIVITY 1.	AMMUN	ILTION		CTG .45 CAL ALL TYPES	CAL ALI	TYPES					(ER8110)	
	FY	96	FY	97	FY	96	FY	66	FY	00	FY	01	01 02 FY	FY 03	٣
QUANTITY	l	-0-	-0-		-0-		-0-		-0-		-0-		1	-0-/-0-	
COST (In Millions) \$		-0-	-0-		\$ .1		· 0 · ·		\$ .1		\$ .1		٠	.1/.1	

DESCRIPTION:

This budget line includes .45 CAL ALL TYPES.

	SHEET
)	JUSTIFICATION
	ITEM
	BUDGET

•	
	1997
DATE	FEBRUARY

											ı,	FEBRUARI 1237	165	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	IVITY					P-1 ITE	M NOME	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MULTION,	ARMY/A	CTIVITY	1. AMMUI	NITION		CTG .50 CAL ALL TYPES	CAL AL	L TYPES				(E0	(E08000)
	FY	96	FY	97	FY	86	FY	66	FY	00	FY	0.1	01 02 FY	03
QUANTITY		-0-	-0-	-(	-0-		-0-		-0-		-0-		-0-/-0-	C
COST (In Millions) \$	\$ 26.7	7	\$ 4.9	6	\$ 20.0	J.	\$ 24.2		\$ 25.0		\$ 27.2		\$ 30.7/33.9	3.9

#### DESCRIPTION:

This budget line includes .50 CAL ALL TYPES.

	A	AMMUNITI	ITIC	ON CC	COST /	ANAL	ANALYSIS	(DOLLARS	ARS IN	IN THOUSANDS)	NDS)	
APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVI	1 🗁	ACTIVITY:	MUNITION	cTG, .50	CAL, ALL	.50 CAL, ALL TYPES (E08000)	8000)		DATE	FEBRUARY 1997	97	
		96		į	97		FY	86		FY	66	
SSN/ITEM:	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ΥΤΟ	UNIT	TOTAL	QTY	UNIT	TOTAL
(E07100) CTG CAL .50 BALL M33 W/M9 LINK	0	00.00	0	0	00.0	0	448	1.90	850	2539	1.94	4922
(E07200) CTG CAL .50 4 BALL/1 TRACER W/M9 LINK	8301	2.97	24689	2072	2.39	4949	9176	2.09	19127	9036	2.14	19294
(F88000) CTG CAL .50 (APT, MK211	194	10.41	2019	0	00.0	0	0	00.00	0	0	00.00	0
(F88000) CTG CAL .50 SLAPT M903 (M962 TRACER)	194	10.41	2019	0	00.0	0	0	00.00	0	0	0.00	0
TOTAL P-1 LINE ITEM			26708			6767			19977			24216
DD F 2448, AUG 89				P-1 ITEM NO.	NO.	a.	PAGE NO. 2	OF 23		EXHIBIT	P-5	

# BUDGET ITEM JUSTIFICATION SHEET

	1997
DATE	FEBRUARY

							-				ĺ	7.7	LEBNOARI 1777	177	,	
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY						P-1 ITEM NOMENCLATURE	NOMEN	CLATURE						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION,	ARMY/	ACTIVIT	( 1. AMM	UNITIO	z	Ť	CTG CAL .	50 BAL	CTG CAL .50 BALL M33 W/M9 LINK	9 LINK				(E07	(E07100)
	FY	96	£14	FY 97		FY 9	86	FY	66	FY	00	Łλ	01 02 FY	0.2	FY	03
QUANTITY (Thousands)		-0-	·	-0-		448		2539		2560		2568		.,	2596/2594	594
COST (In Millions)	w	-0-	٠	-0-	ŧ۸	6.	٠ V	4.9	0,	\$ 5.1		\$ 5.2		v.	\$ 5.4/5.5	.5
																ı

#### DESCRIPTION:

The caliber .50 ball M33 is linked with the M9 links for use in Army training with caliber .50 machine guns, M2 and M3. These rounds are also used in function test firing of the M2 and M3 machine guns. This item is Code A, approved for service use. This item will be procured at a fixed standard price.

### JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

# TYPE CLASSIFICATION DATE:

1951

RCS: DD-COMP(AR)-1092

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG CAL .50 BALL M33 W/M9 LINK

DATE: FEBRUARY 1997 NSN = 1305-00-028-6574 (E07100)

PCN:P02QM1DOC4Z

	FY 96	(QTY		) FY 9	97 (QTY			FY 98 (QTY		447626)	FY 99 (QTY	25.	2538951)
ELEMENT OF COST QM: EACH	OI.	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL,
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M2A1 3.LINK M9 4.PROPELLANT WC860 (LB)								447626 4566 451655 15399	1.29 5.74 0.07 6.55	577 26 30	2538951 25898 2561802 87340	1.32 5.86 0.07 6.69	3339 152 173 584
SUBTOTAL										734			4248
PRODUCTION SUPPORT	PPORT   SURANCE ING SURANCE TESTING ANSPORTATION STOCK SUPPORT	_		 						2,000,000			434 11 499 31 149
SUBTOTAL				<u> </u>   			   						674
**************************************	********** M: 	*	******	***	******	***	* * * * * * * * * * * * * * *	1.90 850	1.90	*	1.94 4922	1.94	44****

P-1 ITEM NO. 7 PAGE NO. 4 of 23

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	1 1 1 1 1 1 1 1 1 1	DATE	DATE: FEBRUARY 1997 	3Y 1997	: : : : : : : : : : : : : : : : : : : :
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305 - (	1305-00-028-6574	574	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTY 1. AMMUNI	rion	CTG CA	L .50 BALL	CAL .50 BALL M33 W/M9 LINK	1 	f 	(E07100)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	 	! ! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1	,   	! ! ! ! !	 	: : : : : :
FY 1994 OLIN CORP.	SS/CPAF	IOC	NOV 93	OCT 94	6522600	1.05			
FY 1998 OLIN CORP.	SS/CPAF	IOC	NOV 97	OCT 98	447626	1.29	YES	ON	
INDEPENDENCE, MO FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	2538951	1.32			
2. BOX METAL M2A1									
FY 1994 BROCKWAY STANDARD	C/FP	IOC	JAN 94	JUL 94	66531	5.68			
FY 1998 TBS FY 1999 TBS	C/FP C/FP	10C 10C	JAN 98 JAN 99	JUL 98 JUL 99	4566 25898	5.74 5.86	YES	NO	
3. LINK M9									
FY 1994 VALENTEC WELLS	C/FP	IOC	JAN 94	JUL 94	6653053	.07			
FY 1998 TBS FY 1999 TBS	C/FP C/FP	IOC	JAN 98 JAN 99	JUL 98 JUL 99	451655 2561802	0.07	YES	ON	
REMARKS:		 	; ; ; ; !	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TBS - To Be Selected

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	ty 1997	1
APPROPRIATION/BUDGET ACTIVITY			P-1 II	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-00-028-6574	0-028-6	574	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITI	TIVITY 1. AMMUNI	NOIL	CTG CA	L .50 BALL	CTG CAL .50 BALL M33 W/M9 LINK			(E07100)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
4. PROPELLANT WC860 (LB) **									
FY 1994 OLIN	SS/FP	IOC	AUG 94	SEP 94	18491	5.98			
FY 1998 OLIN	SS/FP	IOC	AUG 98	SEP 98	15399	6.55	YES	NO	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	87340	69.9			
REMARKS:			 	           	; 1 1 1 1 2 4 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

\*\* PACING COMPONENT

7 PAGE NO. 6 of 23

P-1 ITEM NO.

			1	こうけつしついて	!!!		)					•										1221		2	2	DD-COMP (AR) 10.4	7.0		
PROPR	APPROPRIATION/BUDGET	14	ACTIVITY									P-1	ITEM	EM NC	OMENC	NOMENCLATURE	RE	7						╀					
ROCURI	EMENT AM	PROCUREMENT AMMUNITION, ARM	ARMY/ACTIVITY	No.	1. AMMUNITION	AMMCH.	OILI					5	CTG CAL	.50	BALL	.50 BALL M33 W/M9	W/M9	LINK					9	4				E07100	00
		VIIIO MAGDOGG	ACCEP.	BAL	TSCA	ਸ਼ ਸ਼	AK 97	~				-i -i	FISCAL	YEA	ж 98					H	FISCAL	YEAK	9 AK						~
NO.	4 cc			AS OF	96	3	CALENDAR YEAR	EAR	97					GLE	CALENDAR YEAR	_ ×	98					S	DAR.	YEAR	99				든다
	<u>.                                    </u>	FY FY	:T		8	DEC	JAN FEB MAR	MR APR	MAY JUN	JUL	AUG SEP	ρĊ	NOV DEC		FEB MAR	APR	MAY JUN	JUL	AUG SEP	υζ	IQ NON	DEC JAN	FEB	MAR AFR		SUN	JUL Atig	SEP	اعد
Ħ	96P	97 98 99	96	96	Ц			H		П	H	П	Н	П	H	П	Н	Ц	H	П		Н		Н	-		+	_	
M 1	A 0.00		0.00 0.00	0.0	$\dashv$			1						$\Box$			Н								_		1		0.00
Σ	A 0.00		0.00 0.00	0.00	$\square$												_										-		0.00
Σ.	A	0.00	00.0	00.0				Н			H	Ц	Н			H	Н	П	H	Ц							-		0.00
Σ	A	0.45	0.00 0.45	0.45		Н	Ц	Н		П	Н			П			Н		$\vdash$	.07	.07	.07.08	80.	80.			-		0.00
W.	A	2.50	0.00	2.50				H			H	П	H	П			H		H	П		H		$\exists$	-		-		2.50
F											Н		$\dashv$	Ц			Н							-	_		_		
Σ	M NS 0.05		0.05	00.0				$\Box$			H		H		Н		Н								_		-	_ ]	00.0
Σ	M NS 0.05		0.00 0.05		. 05						Н		H	Ц			Н					-			-			$\Box$	0.00
Σ		0.00	0.00 00.00	0.00				$\Box$			$\dashv$		Н	Ц			$\dashv$							+	_		$\dashv$		0.00
Σ	NS W	D.10	0.00 0.10	0.10				Н					Н	Щ	Н		Н			.05	.05						_		0.00
Σ	SN W	0.05	0.00 0.05	0.05				$\dashv$					$\square$				$\Box$								_		_		0.05
F							$\Box$				$\dashv$		_	1	$\dashv$		$\dashv$		1	$\exists$	_			$\dashv$	_				
Σ	SOF 0.00		0.00 0.00	0.00	$\exists$			$\dashv$		4	$\dashv$		-				$\dashv$	$\dashv$				$\dashv$		$\dashv$			+		0.00
Σ	SOF 0.00		0.00 0.00	0.00	-			-		4	$\dashv$	$\exists$	$\dashv$				-	$\exists$	$\dashv$	1	_	$\dashv$		$\dashv$	4		1		0.00
Σ	SOF	0.00	0.00 0.00	0.00			$\dashv$		1	4	1	4	$\dashv$	4	$\dashv$	_	$\dashv$		$\dashv$			-		$\dashv$	4		-		0.00
Σ	SOF	b.10	0.00 0.10	0.10				$\dashv$			$\dashv$	1	$\dashv$	4	$\dashv$	1	$\dashv$	$\exists$	$\dashv$	.05	.05	-		$\dashv$	$\dashv$		$\dashv$	$\Box$	0.00
Σ	SOF	0.13	0.00 0.13	0.13	$\dashv$		1	$\dashv$			+	7	+		+	$\downarrow$	$\dashv$	$\downarrow$	$\dashv$	1	$\exists$	$\dashv$	1	$\dashv$	4		+	$\Box$	0.13
				_	$\dashv$	$\exists$	1	+	$\pm$	1	+	1	+	1	+	$\downarrow$	+		+	1	_	+	1	+	+		-	_	
Σ	Ω W		0.50 0.00	9	-		7	$\dashv$	1	1	+	1	+	1	+		+	_	+	$\downarrow$	T	+	1	+	+		+	1	0. 0
Σ	MC 0.00		0.00 0.00	0.00	$\dashv$		1	+	$\downarrow$	1	+	7	+	7	+	1	+	1	+	1	T	+	1	$\dashv$	4		$\dashv$		0.00
Ж	MC	0.00	0.00 0.00	9	-		4	-	$\perp$	$\dashv$	$\dashv$	1	$\dashv$	1	+	1	+	1	+	1			7	$\dashv$	4		+		0.00
Σ	MC	06.0	0.00 0.90	99	$\dashv$		4	$\dashv$		$\exists$	$\dashv$	$\downarrow$	+	1	$\dashv$		$\dashv$		$\dashv$	100	10	.10.20	200	70	-		+		0.00
Σ	MC	1.10	0.00 1.10	1.10	-		1	+	$\downarrow$	1	+	1	+	1	+	$\downarrow$	+		+	1	_	+		$\dashv$	+		+	_	1.10
					$\dashv$	$\exists$	1	$\dashv$		1	$\dashv$	7	+	1	+	1	+	1	+	1	_	+	1	$\dashv$	$\perp$		$\dashv$		
W	AF 0.00		0.00 0.00	0.00	1			$\dashv$	$\exists$	$\dashv$	$\dashv$	_	$\dashv$	4	+	#	+	1	$\dashv$	$\downarrow$		$\dashv$		$\dashv$	-		$\dashv$	_	0.00
W	AF 0.00		0.00 0.00	0.00	$\dashv$		4	$\dashv$		1	+		+	1	+	1	$\dashv$	_	+			$\dashv$		$\dashv$	4		$\dashv$		0.00
Æ	AF	0.00	0.00 0.00	0.00	1		1	$\dashv$		$\downarrow$	$\dashv$	1	$\dashv$	1	$\dashv$		$\dashv$	1	$\dashv$	1	+	$\dashv$		1	-		-		0.00
M	AF	p.10	0.00 0.10	0.10	$\dashv$			$\dashv$			$\dashv$	1	$\dashv$	1	+	1	+	1	-	.05	.03	$\dashv$	$\downarrow$	$\dashv$	4			_	0.00
	AF	0.00	0.00	0.09	-			-		1	$\dashv$	1	+	1	+	$\downarrow$	+	1	+	1		$\dashv$		-					0.09
					$\dashv$		_	$\dashv$	1	1	+	1	+	1	+	$\downarrow$	+	1	+	1	+	$\dashv$		-					
	PROI	PRODUCTION	0.55	0.55 5.57.05	05		$\exists$	$\dashv$		7	$\dashv$		$\dashv$		$\dashv$	1	$\dashv$		$\dashv$	1.32	.32	321.321.171.281.281.28	8.28	28	4		_		3.87
		sere affairmo en		PRODU	CTIO	N RAT	ES K	OT SHITK			PRC	COR	EMENT	T LE	LEAD TIME	IME		FEE	PEACETKE C	COMPC	COMPONENT		(U/M=THOUSAND/LB)	HOUSA	I/QN	) a			
PAC NO	MAINO	MANOFACIONER NAME & LOCATION		MINIMUM 1-8-5 MAXIMUM AFTER D-DAY	1-8-5	MAXI	MUM	TER D-D	اج			DDIOD AFTED	ADTIM	வ		TOTAL				UALT	듬	ALT	E	PLT		TOTAL	_		
-	LAKE C	LAKE CITY AAP IND MO		0.00	5.98	8 20	20.77	5			: <u> </u>	L)O	1 8	۳I		AFTER 1	00.1	INI	INITIAL	9		11		1		12			
2	OLIN-S	OLIN-ST. MARKS FL		0.70	0.83		1.00		- -	TNITAL	ΔΤ.	9	7	11		13		REC	REORDER	9		H	_1			12			
						_	+			REORDER	田	9	7	111		7								410	AT THE	5	OTTO TITEM INT. VITTINGTO	T C 1	
							•					,	1			1	-	_						1	-				

ایا	90		, <u></u> .	<sup>되</sup> ∝		0.00	0.00	0.00	00.0	0.00		0.00	0.00	0.00	0.00	78.5			0.00	0.00	0.00	0.00	125						Т	1	.87				
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E07100			SEP	+	0	o	0	0	5	$\dashv$	فا		4		<del>-</del> i	+	$\vdash$	0	٥	히		12 1	+	-	-		-	+	+	<u>۳</u>				
rRol.				AUG							_	1	1	1	$\dagger$	$\dagger$	+				$\dagger$	+	+	+	+	$\vdash$		$\dashv$	+	+					Ollanmimy in verse
CON				Jul				$\perp$	$oldsymbol{\mathbb{I}}$																1			1	$\top$	$\dagger$	$\Box$			7	}
MENTS (AR)				70 C	_		$\dashv$	4	4	-;	1	_	1	_	$\perp$	1							I										LB)	12	77 5
QUIRE COMP			66	APR MAY	+-	Н	$\vdash$	$\dashv$	+	+	+	4	$\perp$	+	+	$\downarrow$	- -		$\dashv$	-	4	4	4	$\bot$	$\perp$	Ш	4	4	$\perp$				년 년	-1	<u>i.</u>
RE, OD		-	EAR		+	$\vdash$	$\vdash$	$\dashv$	+	+	$\dashv$	+	╁	+	Ω7	+	+	$\dashv$	+	+	+	╁	+	+	-	H	+	+	+	$\vdash$	8		(U/M=THOUSAND/LB)	;	1 0118
		~	CALENDAR YEAR	JAN FEB		H	一	$\top$	$\top$	††	1	$\dagger$	$\dagger$		87	$\dagger$	+		$\dashv$	+		<u> </u>	+	+	+-	H	$\dashv$	-	-	Н	32.32.17.28.28.28	I	유 	•	
7		YEAR 99	CALE											7	<u> </u>					T		5	$\dagger$	t			$\dashv$	$\dagger$	十	H	28		(U/m Al.T		1
1997				v DEC	-	$\sqcup$	$\dashv$	4	$\bot$	$\downarrow \downarrow$	1	1	1	7	1.7	1			$\bot$	$\perp$		0. 201									.17			i	
ARY		FISCAL		OCT NOV	+-	H	$\dashv$	+	+	+	+	+	+	2,00	••	╀		$\dashv$	+	+	100		$\downarrow$	$\bot$	H	$\sqcup$	_	$\bot$	1	$\sqcup$	2.32	PEMARKS COMPONENT	UALT	9 9	
FEBRUARY			1	SEP	+	Н	$\dashv$	+	+	+	+	+	+	+	+	+	++	+	+	+	5		╀	+	Н	$\dashv$	+	+	4-	H	=	2		_	
DATE	¥			AUG				$\top$	$\top$	11	$\dagger$	$\dagger$	1	$\dagger$	t	$\dagger$	$\dagger \dagger$	$\dashv$	$\dagger$	$\dagger$	$\dagger$	$\dagger$	$\dagger$	╁	H	+	+	+	+	$\vdash$	$\dashv$	KS.		INITIAL REORDER	
	LI			JUL			$\prod$	$\Box$	I				I	I	I					I		İ					1	$\dagger$	$\dagger$	H	٦.	PER PER	120	INI	
	JRE W/M9 LINK		98	MAY JUN	+		$\dashv$	+	1	++	4	$\downarrow$	$\downarrow$	$\downarrow$	1	1	$\downarrow \downarrow$	4	4	1	1	1	$\perp$									Γ	Ţ	Ħ	
	NOMENCLATURE 50 BALL M33 W/I			E E	+	$\dashv$	+	+	╁	++	+	╀	╁	╀	+	╀	H	+	+	╀	+	╀	╀	╀	Н	+	$\downarrow$	$\bot$	$\sqcup$	1	4			R 1 0cT 13	13
	NCL.	86	YEAR	A R		$\exists$	$\top$	T	+	11	$\dagger$	$\dagger$	1	$\dagger$	$\dagger$	╁	††	$\dagger$	+	$\dagger$	$\dagger$	+	╁	Н	H	+	╁	╁	H	+	$\dashv$	TWE	5	AFTER 1	
	NOMENCLATO	4R	CALENDAR YEAR	JAN FEB MAR APR		$\Box$	$\Box$		I		I		I							1				H		$\dagger$	$\dagger$	$\dagger$	$\dagger \dagger$	$\top$	1	T.FAD TIME			
	_ ·I	5–ì	CAL	DEC JAN	+	$\perp$	+	+	$\bot$	$\perp \downarrow$	$\downarrow$	1	1	$\downarrow$	$\perp$	L		4	Ţ	$oxed{L}$		L					I	I	П			1		11	1
P-21	CTG CAL .	CAL		AON D	+	+	+	+	╀	╁┼	+	+	+	╀	╀	╀	╁┼	+	+	+	╀	╀	-	Н	$\dashv$	_	4	-	Н	4	4	ENT	TER	2 gr	2
1 12	- E	FIS		ĕ			土		$\dagger$	$\sqcap$	†	$\dagger$	t	T		t	$\Box$	$\dagger$	$\dagger$	╁	╁	+	H	H	$\dashv$	+	+	╁	H	+	$\dashv$	JREN		-	+
(EXHIBIT				SEP			$\perp$	$\perp$	$\prod$	П		I	L		L						L					1				$\top$	1	ROCI	ADMIN LEADTIME	9	9
				JUL AUG	++	+	+	+	$\perp$	$\vdash \vdash$	+	$\downarrow$		igdash	L	L	$\sqcup$	4	1	1	ļ	L	L				I			$\perp$	]	1	Γ	, ,	DER
EX	1		97	F NOS	+	+	十	+	╁	$\vdash \vdash$	╁	╁	╀	-	├	┞	╁	+	+	╀	╀	├	┞	$\vdash \vdash$	+	+	+	$\vdash$	$\sqcup$	- -	-			THEFT	REORDER
1 1				ž			I				T	T		T	T	$\vdash$	$\dagger \dagger$	$\dagger$	$\dagger$	t	t	<del> </del>	T	H	$\dashv$	+	$\dagger$	╁	H	╁	$\dashv$	L	L	<del>.</del>	- K
SCHEDULE		ľ		AP.	$\coprod$	-	1			Ц	L									I												2	AFTER D-DAY		
田田	S	97	CALENDAR YEAR	JAN FEB MAR	++	+	. 02	╀	$\vdash$	$\vdash$	╀	0.2	-	L	L	-		1	╀	$\downarrow$	1	L	L		_	4	Ļ	_		- 6	• 0 <i>4</i>	HONTH	AFTER	0	
SCI	( 1. AMMUNITION	CAR	MEND	NA	H	十	╁	╁	$\vdash$	$\vdash$	╁	╁	├	$\vdash$	H	H	9	+	╀	╀	H	-		Н	+	+	+	╀	$\mathbb{H}$	+	4	PRODUCTION RATES	MCM	1.00	
Z	AMM	7	_				上				$\dagger$	T	Ħ	-	$\vdash$	$\vdash$	WCB60	$\dagger$	$\dagger$	T	T			H	$\forall$	+	+	+	Н	+	1	RA	XAM	$^{\sim}$	
PRODUCTION	: []		9	OCT NOV DEC		1	$\downarrow$	$\perp$	Ц								PROPELLANT	I	9								I					TON	52	5.98 0.83	
ğ	E			8	5	ا ءاء	힐		9		ļ_	7,05		22	12			+	100			7		$\sqcup$	4	4	$\bot$	<u> </u>	Н	۲	5.5%	OUCT	<u> </u>	- 1 1	$\dashv$
ROI	VII.		1 001	96		9 6	200	0	0.00		9		9	1.65	3			٥	3 6	0	58.0	137	ш						Ц			PROI	FIST	0.0	
P	ARMY/ACTIVITY	ACCEP.	1 oct	96		0 T O	000	00.0	0.00		0.71	0.00 0.07	0.00 0.00	00.0	0.00		PACING COMPONENT:	23 0 0 00		00	0.00	0.00			1					5	7				$\dashv$
CTI	ARM		12	$\Box$			Ţ	Ī	0.00	1				)	3.87			Ť				137 [			1	T	T		H	+	7	NAME		S	
T	S	PROGRAM QTY	\ \ \ \	_		+	╁	8	မြ	+	╁	┝	$\vdash$	. 65	Э.		8	+	╀	$\vdash$	58.0		Н	+	+	+	╀	Н	$\vdash$	1	ال	2	12		
JDG	II	GRA	-		$\vdash$	╁	늘	10	Н		╁	-	00	-	_	_	11	╀	╀	١	<u>58</u>	Н	Н	$\dashv$	+	╀	╀	Н		TOTAL MONTHLY	NO.	TITIE	ATI	ARKS H	
N/B(	D. WILLIAM	PRO	200			2 2	0.0		$\vdash$	- -	Ŀ	7	0.00			_	BA(	╁	10	0.0	L	Ц		4	4	4	L	Ш	$\perp$	A A	500	FAC	3		
TIO	E-		2	7 19	- 10		1	L	$\sqcup$	+	0.71	0.07		Ц	Ц	4		2 2	_	╄—	Ц			$\downarrow$	1	1	L	Ц	$\perp$	Loi	P.K.O	IANU	& LOCATION	LAKE CITY AAP IND MO OLIN-ST. MARKS FL	
RIA	REME	លកាប			Ę				OTH		Ę.	ALL	ALL	ALL	ALL			Ę				TOT							_ [			_	_	33	$\perp \mid$
PI APPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION,			+	>	ΞΣ	Ξ	Σ	M	T	F	F		$\exists$	$\exists$	٦	T	×	1	×	×	×	$\exists$	7	Ŧ	Ŧ	F	Ħ	+	F		J <sub>Z</sub>	NO.		
API	<u>a</u>	FAC	2		1	1-	1											1	2		2	7			$\perp$							Ē	ž	7 7	

QUANTITY IN MILLIONS

P-1 LINE NO. \_ 7 PAGE NO. \_ 8 OF\_23 \_ PAGES

دِ	00	:	>٢.	든다	.a≃		00.0	0.00	0.00	00	0		0.00	00.0	00.0	0.00	0.00		0.00	0.00	00	0.00			00.0	00.0			000		0.00	0.00	00.0	0.00	0.00							
REQUIREMENTS CONTROL SYMHOL DD-COMP (AR) 1092	E07100	-			SEP		0	0	C	9			C	10	0	0	0			0				-	C	9			ء اح	-	0	0	9	9	0	H	-					CONS
ITROL 12					AUG				L																																	QUANTITY IN MILLIONS
s cok					N JUL				L	-	-	$\vdash$	-	_	-					L		1		-		1	ļ	-	_	_	_		_						] .	v ~		Z
EMENT P (AR				2	AY JUN			H	-	$\vdash$	╁	+	╁	-	-	-	_	-	ļ		F	-	-	$\vdash$	-		┞	╀	$\vdash$			Н	_			$\vdash$	$ \cdot $	LB)	101AL	12		ΔĹ
COUIR COM				02	APR MAY	Н					+	$\dagger$	H	-	-		-	H	<u> </u>	-	<u> </u>	$\vdash$	$\vdash$	╁		-	$\vdash$	├	$\vdash$		_					+	+ $ $	AND/				I
2 H	<del> </del>	$\frac{1}{2}$		YEAR					T				<u> </u>	<u> </u>	_	$\vdash$		-			H		$\vdash$	T	-											-	-	(U/M=THOUSAND/LB)	<u> </u>	٠.		Ď,
		R		CALENDAR YEAR	JAN FEB MAR							L																									11	M=TH				
7		YEAR	02	CALE		Ц	_	L	_	1	$\downarrow$	_			L			L		_	_		L	_				L											1	1 1		
1997		CAL			NOV DEC	Н		┞	$\vdash$	$\vdash$	╀	+	$\vdash$	├	_	-		_		-	-	_	H	_	L	-	L	-	$\vdash$	$  \cdot  $	4	-		4	4	+	$\left  \cdot \right $	PACING COMPONENT				
DATE FEBRUARY		FISCAL	1		ž L			-	H	$\vdash$	$\dagger$	+	+	┢	_	-		H		-	-	H	H	-		┝			-	H	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	╁	$\parallel$	MPONI UALT	و	9		
EBRI		r			SEP																	<u> </u>			_	T				H		┪	7		1	+	11	000		p;		
ATE	¥				AUG	Ш		L	_		L	Ļ	L		_							L																SEENS SEENS	INITIAL	REORDER		
<u>a</u>				١.	JUN JUL AUG	Ц	_	L	┞	_	$\vdash$	╀	╀	_	_	L				L	_	_		_							4	_	4	$\perp$	4	$\perp$	ŢĹ	<u></u>	H	꼾		╛
	NOMENCLATURE 50 BALL M33 W/M9			01	MAY JU	Н	L	-	$\vdash$	-	╁	+	╁	H	-					<u> </u>		_	┞	$\vdash$		-	_	H	Н	Н	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	$\cdot$		DC.T		T	57
	NOMENCLATURE 50 BALL M33 W/				APR	Н			T	T	t	t	┢			H					H	-				-			_	$\vdash$	7	$\dashv$	+	$\dashv$	+	+	d	田	AFTER 1	13	2	4
	SNCI		01	YEAR	MAR							L																								†	1	TIM	AFT		_	]
	NOMI SO B	AR		CALENDAR YEAR	JAN FEB MAR	$\dashv$			$\vdash$	L	╀	-	L	_	_								L	Ц				_	Ц					$\Box$	$\rfloor$			LEAD TIME	PROD.	11	1-	
ا ر	ITEM CAL .	FISCAL YEAR		ð	DEC JA	$\dashv$	_	-	H	├	H	╁	$\vdash$	$\vdash$	$\vdash$	Н		_		H	_	H	-	Н	_	$\vdash$		H	Н	$\Box$	4	$\dashv$	4	$\dashv$	4	_	-	다 Hat			Т_	77
P-21	្ក ក្រ ឡ	SCAI									T	t	T			_					H		-	Н			Н	Н	Н	$\dashv$	-	+	+	$\dashv$	+	+	1	PROCUREMENT ADMIN LEADTIME	SCA	7	,	1 1
	P-1 CTG	FI			OCT NOV																																	NOR	šE	9	4	
(EXHIBIT			į		G SEP	$\dashv$	4			L	30.20	• •	-	-					_	Ц			L	L				Ш	0.10		4	4	4	4	4	0,30	•!	PRO	<del>7.</del>			1 1
H					JUL AUG	$\dashv$	_				20.3	-	┝		_	$\dashv$	-		_			-	_	Н		$\vdash$		Н	.05.10	4	$\dashv$	+	$\dashv$	+	+	5.4				TMTMTAL	REORDER	
(EX			i	00	JUN	1					20			Г			$\exists$						┢			Н			.10.	1		$\dagger$	+	$\dagger$	1	30, 30, 25, 40				TNT	REO	
囮					Ϋ́	$\downarrow$					20																		.10													<u> </u>
ğ				5	MAR APR	+	$\dashv$	_	Н		20.20		L				-		_			L	L	Н		L			10.10	$\Box$	_	4	4	4	4	40, 30, 30, 30, 30, 30		MONTHS TO REACH MAX AFTER D-DAY				
SCHEDUL	NOI		8	CALENDAR YEAR	FEB NO	+	$\dashv$	_	Н		20,2			Н	-	$\dashv$	$\dashv$		_		_	H	-	Н				H	10.1	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	9		AFTE		0	$\bot$	
SC	Y 1. AMMUNITION	EAR		CALENI	JAN	1					20			_									-			$\vdash$			10	$\dashv$	$\dashv$	+	+	+	+	30		RATES	20.77	1.00		
ğ	AMM	AL.			DEC						20												0.05						.05							30		N N		I	+	-
ij	1	ISC.		6	OCT NOV	+	$\dashv$	_	Ц		.20.20	-	_			_	02	$\dashv$				H	3,05			L			10,10		4	4	_		04.05			TIO	5.9	0.83		
PRODUCTION	ΙΤΥ	۳			_	+	000	0.00	00.0	00.0	2.50.2	-	00.0	00.0	00		0.05.0	$\neg$	0.00	00.0	00	00.0	0.13.03	Н	00	00	00	00		Н	8	恴	힒			87 42		PRODUCTION MINIMUM 1-8-5	8	0.70	$\dagger$	1
8	CTIVITY ARMY/ACTIVITY	L		1 0CT			힁	힁		5 0.				5 10.	00.00	0.00		$\dashv$	00	0 0.	00.00	0.	0.	Н	00.00	0.00	00.00	00.00			0.00	00.00	0.00	0.00	0.0	2 25 3 87		PROMINI	0			
"	ACTIVITY , ARMY/AC		ACCEP.	5 <u>1</u>		35	0.00	0.00	0.00	0.45	0.00		0.05	0.05	0.00	0.10	8		0.00	0.00	0.00	0.10	00.0		0.50	0.00	00.0	06.0	0.00		0.00	0.00	0.00	0.10	0.00	2,	3		l			
l			QTY		FY	99					.20						0.05						.13						.10						0.09		1	NAME	Q Q			
	172			- +	_	8		┪	Н	.45	2					림	ា					.10	0					90	-51		T	7		9	٩	HEY	J		NI	(S FL		
	UDG		PROGRAM	t	_	2	1	$\dashv$	00.0	o .	-	╁	_		00.	٥	$\dashv$	_			00.0					H	.00	0	Н	$\forall$	ᅥ	$\dashv$	0.00	٩	$\dashv$	KOL		CAT	AAI	MARKS		
l	N/B		PRC		FY		8	8	0			$\vdash$	05	05	٥	$\dashv$	$\dashv$	-	00	00	0	Н		Н	50	00.0	0	Н	Н	$\vdash$	힝	ᇹ	힉	+	$\dashv$	TOTAL MONTHLY		UFA	LI	ST.		
	O I	L				7	0.0	0.00	$\dashv$		_	-	0.05		Н	-	$\dashv$	$\dashv$	F 0.00	F D.00	r,	ſ,	E	Н	0.50			Н	$\vdash$		0.00	0.00	4	$\dashv$	$\dashv$		4	MANUFACTURER & LOCATION	LAKE CITY AAP IND	OLIN-ST		
	REME	7	ΣE		<b>&gt;</b>	- 1	A N	A	M A	MA			SN W	SN W	M NS	N NS	M NS		M SOF	M SOF	M SOF	M SOF	M SOF	Ц	M MC	M MC	M MC	M MC	M MC		N AF	A PF	A AF	M AF	MAF			$\vdash$		ΙÖ	+	-
	APPROPRIATION/BUDGET PROCUREMENT AMMUNITION	<u> </u>	נז		$\dashv$	+	2	نخ	-27			1			تح		<u>تح</u>	П	تح	نحص	نح			П			نح				2							FAC NO.	_	2		
	AP.		FAC	9 2		_				1	1	<u>L</u>	-	1		П						1			1			1	1										1			

				I.	PRODUCTION	UCT	Į	1 1	田田	SCHEDUL	ы	EXI	(EXHIBIT		P-21	Ē					da_	DATE	FEBRUARY		1997			REQUIE DD-CON	REMENT MP (AF	TS COP R) 109	REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	SYMBOI	<u></u>
A P P R C PROC	PRIAT.	ION/BUE L AMMUNI	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY	IVITA WY/AC	TIVI	7	1. A	7 1. AMMUNITION	NOIL					Ī	P-1 ITEN CTG CAL	LTEM CAL	ITEM NOMENCLATURE CAL .50 BALL M33 W/	IENC!	NOMENCLATURE 50 BALL M33 W/M9 LINK	RE W/M9	13	¥										E07100	<u> </u>
FAC	លមា	PROGI	PROGRAM QTY	ACCEP.			SCAL	YEA	8 8					,	FISCAL	AL Y	YEAR	2					124	FISCAL		YEAR 02						77.	].
NO.				1	AS OF 1 OCT		6	CALE	CALENDAR YEAR	EAR		00					CALENDAR YEAR	R YEAR		01	١.		1			CALEND	CALENDAR YEAR		02			Ī	ا ا
	>		FY FY	c		OCT NOV	NON	DEC JAN	FEB MAR	GR APR	XX	JUL NUL	JL AUG	SEP	OCT NOV	230	JAN FEB	a R	APR MAY JUN	AY JU	JOE	AUG	SEP	OCT NOV	) DEC	_	JAN FEB MAR	APR		วณ วณา	AUG	SEP	.a∝
		76 796		66	66		$\dagger$	+	I	+	1	+	1	士	+	1	+	1	$\pm$	+	_		+	+			-	1	+	-		+	T
-	M OTH	0.16		0.16	0.0	Ĺ	T	-	L	+	L	+	$\perp$	T	+	I	+	1	$\perp$	+	$\downarrow$		+	+	_	1	-	1	$\dagger$	+	Ţ	<u> </u> c	0.00
1	OTH	0.02		0.02	0.00		H	Н		Н					-		$\vdash$	L		┝	1		╁	╀	L	Ľ	<u> </u>		-	+-		0	00
	МОТН	0.00		0.00	0.00			-		H		Н		Ħ	Н	П	Н	$\sqcup$		$\vdash$			$\vdash$							H		0	0.00
			00.0	0.00	0.0		_	-		$\dashv$	$\exists$	$\dashv$	$\dashv$		-		H			$\Box$	Ц			Н			Н					0	0.00
	м отн	-	0.0	0.00	8		+	+		+	1	+	$\perp$	1	+	1	+	$\perp$	$\pm$	+	_		+	+			$\dashv$		$\dashv$	+	1	0	0.00
				_	igspace		+	+		+	$\downarrow$	+	$oldsymbol{\perp}$	$\perp$	+	1	+	$oldsymbol{\perp}$	$\perp$	+	_		+	+	$\bot$		+	1	+	+		+	
	ALL	0.71		0.71	0.0	Ĺ	H	-		-		$\vdash$	$oxed{\Box}$		-		+	ļ_	$\perp$	+-	L		+	$\perp$			+	İ	+	+		c	0 0
	ALL	0.07		0.07	0.00		H	Н		Н	Ц	Н	Ц		Н		$\vdash$	$\coprod$		-			-		L		-		-	$\vdash$		0	00.0
	ALL	0.00		0.00	0.00 0.00					-		$\vdash$	Ц		Н		H	Ц		H			_						$\vdash$	-		0	00.0
	ALL		1.65		0.0		- 1	$\dashv$		-			$\Box$	. 1	$\dashv$		$\dashv$	$\Box$		$\Box$			$\dashv$									0	0.00
	ALL		3.87	0.00	3.87	7.42	40.30	30.30	휘	30.30	휘	30.2	25.40	9	+	1	+	$\bot$	_	$\dashv$	$\downarrow$		$\dashv$	$\dashv$			1			-		0	00.0
		[J&G	DACTING COMBONENT.	NEWE .	1000	Į,	N. N.	DECIDENT MACKED		+	1	+	$\bot$	$\perp$	+	#	+	$\bot$	$\pm$	╬			+	+	$\perp$		+		+	+		+	
			2000								I	+		Ī	-		+	L	$\perp$	╁	1		$\dagger$	+			+	İ	+-	+		+	Τ
2	TOT	23.0		23.0	23.0 0.00		Н	Ц		$\vdash$		H	Ц	H	ert		H			Н			Н						-	-		0	0.00
7	K TOT	2.00		2.00	9	口	$\dashv$	$\perp$		+	$\downarrow$	$\dashv$	$\prod$	$\dashv$	$\dashv$		+	$\exists$	_	$\dashv$			$\dashv$	-								0	0.00
	TOT	0.00		0.0	0.00 0.00	1	+	-		+	1	+	$\downarrow$	$\dagger$	+	1	+	$\downarrow$	$\dagger$	$\dashv$	1		$\dashv$	$\dashv$			_		$\dashv$	$\dashv$		0	0.00
7	TOT		28.0		~,		+		1		1	+		$\dagger$	+		+	$\Box$	$\dashv$	+		1	$\dashv$	$\dashv$		1	-		$\dashv$	$\dashv$		o.	0.00
7	TOT		137	7 12.0	125	7	129.0	0 12	7	12 12	12	128	.0 12	+	+	1	+	$\top$	+	+			+	$\perp$		$\dagger$	+		+	+		9	0.00
				$\perp$		1	+	$\perp$		-	1	+	Ţ	+	+	1	+	$oxed{\Box}$	+	+		$\dagger$	╁	+	$\perp$	$\dagger$	-		+	-		+	T
				$\prod$	Ц	П	Н	$\prod$		H		Н		$  \cdot  $	$\sqcup$		Н	П	H	Н			$\vdash$			-	-		+	+	1	+	T
				$\downarrow$		1	+	$\prod$	$\exists$	+		+	1	+	+	$\perp$	+	1	+	$\perp$		$\top$	+	$\sqcup$			$\parallel$		H	H			
				$\perp$	$\perp$	1	+	$\bot$	$\perp$	+		+		+	+	$\perp$	+	I	+	+		$\dagger$	╁	-		$\dagger$			+	-		+	
						Ц	H	$\prod$		H		H		H	$\prod$		H		H	$\left  \cdot \right $		T	H	$\perp$		+	-		+	+		+	
							$\dashv$	$\perp$		+		+		+	_	士	+		+	4			H	$\sqcup$		H	H		H	H			
		TOTAL MONTHLY	NTHU	2.43	3,87	42	40.3	42, 40, 30, 30,	98	30, 30, 30	•	30, 30, 25		40.30	+	$\perp$	+		+	+		-	╁	+		+	+		+	-			
			]																				$\left\  \cdot \right\ $	$\  \ $		$\left\  \cdot \right\ $	$\left  \cdot \right $	]	$\left  \cdot \right $	-		+	T
FAC	-	MANUFACTURER	TURER NA	NAME	PRODUCTION RATES MONTHS TO	NCT.	ION	RATE	Si	OH POX				ROCL	REMI	TNE	LEAD TIME	F	Œ	П	E E	AFK&	COM	PACING COMPONENT		(U/M=	(U/M=THOUSAND/LB)	SAND	/LB)				
ջ  -	T	& LOC!	ATION		SUST	4 2	5-8-5	MAXIMUM 20 77	77	TER D-D.	≽I			PRIOR AFTER 1 OCT 1 OCT	AFT.		PROD.	AF	AFTER 1	SC1		TNITHIA		UALT	~	ALT	PLT.	E	TOTAL	LAL			
7 2	OLI	OLIN-ST. MA	OLIN-ST. MARKS FL	2	0.70	1 1	0.83		1 1			TATEMENT	TAT	9	2			_			H H	REORDER	J 62	9		1 [	<b>⊣</b> ←			12			
	-								+			REORDER	DER	9	2	+	11	+	13	T							Ö	TA MT.	, VFT		,		
											۵		P-1 LINE NO			PAGE	PAGE NO.	٦	10	] <b> </b> ~	0.000	٥						מינים		J I	SOUTHIN WILLIONS	ONS	_
												i		•																			1

P-1 LINE NO. 7 PAGE NO. 10 OF 23 PAGES

# BUDGET ITEM JUSTIFICATION SHEET

									ļ			i	COT INCONCERT	177	
APPROPRIATION/BUDGET ACTIVITY	BUDGET A	CTIVITY						P-1 ITEM NOMENCLATURE	VOMEN	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION,	ARMY/P	CTIVITY	1. AMMUI	NITIO	7	U	TG CAL .5	0 4 B	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK	ER W/I	MO LINK			(E07200)
	FŸ	96	FY	6		FY 98		FY	66	FY	00	FŸ	0.1	01 02 FY	.x 03
QUANTITY		8301	2702	, 2		0116		2000		4				3	000076000
(Thousands)		1	3	3		0 #		9006	-	9150		2026		9.6 2	05757650
COST			i				_								
(In Millions)	٠,	24.7	\$ 4.9	6	ę,	19.1	ŧs.	19.3	-OF	5 20.0		\$ 20.5		\$ 21	\$ 21.2/21.7

#### DESCRIPTION:

round permits observation of the bullet's trajectory to the point of impact. The ammunition is designed for use in the M2 or M3 machine guns. This item is Code A, approved for service use. This item will be procured through the linked configuration are for training use in either vehicle mounted or ground mounted machine guns. The tracer This item consists of M33 ball and M17 tracer linked 4 to 1 with the M9 link. These cartridges in the CAWCF at a fixed standard price.

### JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1968

Page of Pages **Exhibit P-40** 

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG CAL .50 4 BALL/1 TRACER W/M9 LINK

PCN:P02QM1D0C4Z

DATE: FEBRUARY 1997 NSN = 1305-01-370-2594 (E07200)

	FY 96 (QTY	8301	(56)	FY 97 (QTY	2072000)		FY 98 (DTV	9145	91457121	EV 00 70TV	0167200	1010
								1			0000	(,,,,
ELEMENT OF COST QM: EACH	QTY	COST	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT COST	TOTAL	QTV	UNIT	TOTAL
HARDWARE									-			
1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M2A1 3.LINK M9	8301194 84673 8375905	1.93 5.62 0.06	16010! 475! 540!	2072000 21135 2090648	1.63 5.07 0.06	33831 1071 1191	914571 <b>3</b> 93287 9228025	1.39	12751	9036219 92170 9117545	1.42 5.86	12862 540 615
4.FROFELLANI WC860 (LB) F PROP TWD 5010	234924	6.50	1526	58638	5.83	342	251508	6.55	1648	248497	69.9	1663
(LB)	55618	15.15	843	13883	17.74	246	65850	14.61	962	65061	14.92	971
SUBTOTAL			19394			4197			16505			16651
PRODUCTION SUPPORT												
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING	FEERING E		6011			1701			1687			1702
4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPORT 6. CAWCF GAIN/LOSS SURCHARGE	TATION SUPPORT SURCHARGE		8251 8251			44 0			190; 119; 585;			191 120 <b>58</b> 8
SUBTOTAL			5295			752			2622			2643
**************************************	********	2.97	246891	**************************************	2.39	16565	*****	2.09	! ******** 19127!	246891 2.39 4949! 2.09 19127! 2.14 19294	2.14	19294

12 of 23 PAGE NO. P-1 ITEM NO.

PCN PO2QM1DOD4Z

DATE: FEBRUARY 1997

	1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	DATE: FEBRUARY 1997	KY 1997	i i i
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305 - 01 - 370 - 2594	01-370-2	594	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	ITY 1. AMMUNITION	NOIT	CTG CA	L .50 4 BAL	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK	/M9 LINK	1	(E07200)	
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)	1	     	1 1 1 1 1 1	 	 				
FY 1996 OLIN CORP.	SS/CPAF	IOC	JAN 96	OCT 96	8301194	1.93			
INDEPENDENCE, MO FY 1997 OLIN CORP	SS/CPAF	IOC	JAN 97	OCT 97	2072000	1.63	YES	NO	
INDEPENDENCE, MO FY 1998 OLIN CORP	SS/CPAF	IOC	NOV 97	OCT 98	9145713	1.39	YES	NO	
INDEPENDENCE, MO FY 1999 OLIN CORP INDEPENDENCE, MO	SS/CPAF	IOC	NOV 98	OCT 99	9036219	1.42			
2. BOX METAL M2A1									
FY 1996 BROCKWAY STANDARD	C/FP	IOC	36 NOC	SEP 96	84673	5.62			
HOMEKVILLE, GA FY 1997 TBS FY 1999 TBS	C/FP C/FP C/FP	100 100 100 100	MAR 97 JAN 98 JAN 99	JUL 97 JUL 98 JUL 99	21135 93287 92170	5.07 5.74 5.86	YES	ONN	
REMARKS:		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 				1 1 1	4 4 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5

TBS - To Be Selected

7 P-1 ITEM NO.

PAGE NO. 13 of 23

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT	HISTORY	HISTORY & PLANNING		DATE	DATE: FEBRUARY	Y 1997	•
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	ATURE	NSN = 1305-01-370-2594	1-370-25		· :
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	/ITY 1. AMMUNI	NOIL	CTG CAL		.50 4 BALL/1 TRACER W/M9 LINK	M9 LINK		<u>E</u>	
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REOD	TE YES WHEN AVAIL
3. LINK M9		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	: : : : : : :		1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1	1 1
FY 1996 VALENTEC WELLS COSTA MFCA CA	. C/FP	IOC	JUN 96	SEP 96	8375905	90.0			
FY 1997 TBS FY 1998 TBS FY 1999 TBS	C/FP C/FP C/FP	IOC	MAR 97 JAN 98 JAN 99	JUL 97 JUL 98 JUL 99	2090648 9228025 9117545	0.06 0.07 0.07	YES	NO NO NO	
4. PROPELLANT WC860 (LB) **									
FY 1996 OLIN SERVE ET	SS/FP	IOC	APR 96	96 NOC	234924	6.50			
FY 1997 OLIN	SS/FP	IOC	AUG 97	SEP 97	58638	5.83	YES	ON	
FY 1998 OLIN ST. MARKS FI.	SS/FP	IOC	AUG 98	SEP 98	251508	6.55	YES	NO	
FY 1999 OLIN ST. MARKS, FL	SS/FP	IOC	AUG 99	SEP 99	248497	69.9			
REMARKS:							 	! !	1

\*\* PACING COMPONENT TBS - To Be Selected PAGE NO. 14 of 23

7

P-1 ITEM NO.

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	R PLANNING		DATE:	FEBRUARY 1997	3Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305 - 01 - 370 - 2594	1-370-25	594	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TIVITY 1. AMMUN.	ITION	CTG CA	L .50 4 BAL	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK	/M9 LINK	 	(E07200)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
5. PROP IMR 5010 (LB)		f 	i i i i i	1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ;		 	! ! ! !	4 1 1 1
FY 1996 ALLIANT TECH SYS	SS/FP	IOC	SEP 96	SEP 96	55618	15.15			
FY 1997 ALLIANT, VA	SS/FP	IOC	AUG 97	SEP 97	13883	17.74	YES	NO	
FY 1998 ALLIAND, VA	SS/FP	IOC	AUG 98	SEP 98	65850	14.61	YES	NO	
FY 1999 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	AUG 99	SEP 99	65061	14.92			
REMARKS:							           	! ! !	5 6 8 7 1

P-1 ITEM NO. 7 PAGE 1

PAGE NO. 15 of 23

	PROI	PRODUCTION SCHEDULE (EXHIBIT P.	P-21)	DATE TERRITARY 1007	REQUIREMENTS CONTROL SYMBOL
OPRIAT	APPROPRIATION/BUDGET ACTIVITY	<u>a</u>	TTEM NOMENCE A TIBE	1221	DD-CCMP (AR) 1092
CUREMEN	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	1. AMMUNITION	CAL	ER W/M9 LINK	E07200
	DDOCDAM OFFICE PRIDE THE		FISCAL YEAR	ISCAL Y	
Z	To To	96 CALENDA	CALENDAR YEAR 08	GALENDAR VEAR	QQ T
>	FY FY FY	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT	MAR APR MAY	JUL AUG SEP OCT NOV DEC JAN FEB	APR MAY JUN JUL AUG SEP
	96 96 66 86 96		H		
C ~	0.00 0.00				00.00
c ~	2.10	L. UL. UL. UL. UL. U. 5U. 5U. 5U. 3U. 5U	200		00.0
	9.10		/0/:/0		L
M A	9.00			.70.70.70.70.80.80	.90.80.80.50.80.90
					9.00
SN W	0.00 0.00 0.00	0			
N W	0.00 0.00 0.00	0			
N NS	0.20 0.00 0.20	10	10		
M NS	0.50 0.00 0.50			10 10 05 10 05 10	
M NS	0.55 0.00 0.55	9			
M SOF	0.19 0.00 0.19	9.10.09			
M SOF	0.00 0.00 0.00	0			
	0.00 0.00 0.00	0			
	_			.06.05	00 0
M SOF	0.21 0.00 0.21				0.21
Т					
					0.00
Ţ					0.00
A A .	0.00				0.00
M AF	00.0				0.00
	0.50 0.00 0.50				0.50
M FMS	1.00 0.80 0.20	02.20			
M FMS	0.07				0.00
M FWS	0.00 0.00 0.00				0.00
M FMS	0.00 0.00 0.00				0.00
M FMS	0.00 0.00 0.00				0.00
					00.00
	PRODUCTION 0.80 31.0	<u> </u>	30.70	. 86, 85, 75, 80, 85, 90,	.90.80.80.50.80.9010 3
				BEMARKS	
FAC MA	MANUFACTURER NAME PROI	PRODUCTION RATES MANTHS TO PROCURE!	PROCUREMENT LEAD TIME	Ď)	SAND/LB)
T	D MO		OCT PROD. AFTER 1 OCT		PLT TOTAL
OLII	-	0.83 1.00 0	2 11 13	REORDER 6 11	1 12
		INITIAL	!	o	1 12

12 - -11 [ 9

QUANTITY IN MILLIONS

PAGE NO. 16 OF 23 PAGES P-1 LINE NO. 7

							ı													Ţ				١			1			
				Į.	PRODUCTION	CTI		SCH	SCHEDUL	Щ	EXI EXI	(ЕХНІВІТ			_				<u> </u>	표	BRUA	FEBRUARY 1997	766		× D	EQUIRE D-COMP	RECOUREMENTS COMP. DD-COMP. (AR.) 10°2	10°2	medi. Sambol. 2	į
A P P R	CUREME	ENT AMM	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY	ARMY/AC	TIVIT	1:	AMMOI	NITIC	Z				P-1		~	NOMENC 50 4 PA	NOMENCLATURE 50 4 BALL/1 TR	URE TRA	JRE WAS IIND	1/40									503	002200
	L				Ĺ	FISCAL YEAR	AL YE	AR					Ē	FISCAL	.!≻		7/110	5		7/11/2	117	FISCAL	- 1	VFAR	1				2	2007
FAC	<u>.</u> Б		PROGRAM OTY					9	97						į	86	~				-			66						^_
NO.				ğ <u>ş</u>	AS OF	96	₿.	CALENDAR YEAR	YEAR		97				CALE	CALENDAR YEAR	×,	98	_		-		٦	CALENDAR YEAR	YEAR	96				:=-
	>    -	FY	ΕŸ	П		OCT NOV	DEC	AN FEB	JAN FEB HAR APR	MAY	<b>JUN JUL</b>	AUG	SEP OCT NOV		DEC JAN	JAN FEB MAR APR		MAY JU	-	JUL AUG S	SEP OCT	T NOV	DEC 3	JAN FEB	Ř	APR MAY	N JUN	JUL ANG	SEP	4×
	$\frac{1}{1}$	96P	97 98 99	96	96	+	$^{+}$	+	$\pm$	1	$\dashv$	$  \downarrow  $	$\dashv$		$\prod$	$\ \cdot\ $	П	H	$\prod$		H			Н		H				
	+	+		-		+	‡	+	$\dagger$	7	+	#	+	1	7	+	7	+	1		+	$\Box$	1	$\dashv$		$\dashv$	$\downarrow$	+	4	
	1.	10		08 0	200	200	1	+		1	+	#	+	$^{\dagger}$	1	+	1	$\dashv$	$\perp$	$\int$	+	1	$\perp$	+		+	$\perp$	$\dashv$	4	
	ALL 114	10		00.0	2 2	20.00	15	5	0	0	5	5	[5	#	Ŧ	+	7	+	$\downarrow$	1	+	1	$\frac{1}{2}$	+	1	+	+		+	00.00
	ALL	?	2,30	00.00	2 30		3	3			30.30	200	/0	ä	5	+	-	+	$oldsymbol{\perp}$	1	+		_	+	1		-	+	-	000
	ALL		9.71	00.0	0 9.71	$\vdash$					$\vdash$	1	1		2	t	F	+	$oldsymbol{oldsymbol{\perp}}$	$\dagger$	σ	ά	남	ν Σ	0	0	200	20	80	00.006
	ALL	٠	10.	0.3 0.00	0.00 10.3			$\sqcup$								1-	L	+	F	$\perp$	-	٠l	<del>: -</del>	•1		•1			٠١.	10.3
						Н		Ц	Н		H		H			$\vdash$		$\vdash$	F	İ	<del> </del>	$oxed{\Box}$	$\perp$	-		-	_	$\vdash$	-	
			PACING COMPONENT:	PONEINT:	PROPELLANT	LLANI	1 WCB60	20			H		H		Ц	H	Ц	Н			-		$\vdash$				-	-	-	
	_					+	$\exists$	-	$\pm$	1	$\dashv$		-		1			$\dashv$			dash			Н		Н				
7	X TOT	C II		33.0	9		7	- 1	٦				-			-								_						00.0
7	TOT	245		70.0	175	20 20 20 20	12	20 20 20	20 20	20	20	$\downarrow$		1	4	$\dashv$	1	+	$\exists$		$\dashv$			$\dashv$						0.00
7	_		62.0	0.00	~!	+	1	-		1	+		21 21	20	1	+		$\dashv$			_			4						0.00
7			272		_	+		$\dashv$	$\dashv$	1	$\dashv$	$\downarrow$	$\dashv$		4	$\dashv$	4	$\dashv$	-		23 23	3 23	23	23 23	3 23	23 2	22 22	22 2	22	00.0
7	TOT.		21	280 0.00	280	$\dashv$	1	$\bot$	+	1	-		$\dashv$	$\exists$	1	$\dashv$	1	$\dashv$	$\Box$		$\dashv$			$\dashv$					24	256
	1	1		+	1	+		-	+	1	$\dashv$	1	$\dashv$		4	$\dashv$	1	-	1	1	$\dashv$		$\dashv$	-		$\dashv$				_
	$\frac{1}{1}$	1		$\frac{1}{1}$	#	+		$\bot$	+	1	+	1	-	1	7	$\dashv$	1	$\dashv$	_	_	$\dashv$		$\dashv$	$\dashv$		$\dashv$	_			
	+	1		+	1	+	$\pm$	$ \downarrow $	+	$\downarrow$	+	1	$\dashv$	$\pm$	7	+	#	$\dashv$	7		$\dashv$	$\rfloor$	$\dashv$	$\dashv$		-	$\exists$			
	+	+		1	1	+	$\pm$	$\blacksquare$	+	#	+	1	$ \downarrow $	$\pm$	1	+	1	+	1	$\dashv$	$\dashv$	1	+	$\dashv$		$\dashv$	_			
	+	+	+	+	1	+	$\pm$	$ \downarrow $	+	#	+	1	$\mp$	$\pm$	#	+	1	+	1	$\dagger$	+	1	+	$\dashv$		$\dashv$	-	$\dashv$		
		-		+		-	$\perp$		+	#	+	$\downarrow$	+	$\perp$	1	+	1	+	$\bot$	$\dagger$	+	$\downarrow$	+	$\downarrow$			1	+		
		-	-	+	1	$\perp$	$\pm$	$oxed{F}$	+	1	+	$^{\dagger}$	F	+	T	+	1	+	T	+	+	$\downarrow$	+	+		+	1	+		
						<u> </u>			-	1	$\perp$	t	-		F	+	1	+	1	$\dagger$	+		+	-		+		-		
						$\Box$			Н		Н	Ħ			П	Н					_		+	-	I	╀	L	+	1	
	-					$\prod$			+		$\dashv$		_			-		H		H	$  \cdot  $		H					-		
	+	1		$\frac{1}{1}$	1	+		1	+	#	+	$\downarrow$	7	$\pm$	#	+	1	$\dashv$	1	$\dashv$	_		$\dashv$	4		+				
		+	+			otag	1	1	+	#	+	$\pm$	7	$\pm$	#	-	#	+	1	+	+	$\downarrow$	+	_		$\dashv$	1	$\dashv$		
	-	#		+		$\perp$	1	1	+		+	$\pm$	-	+	‡	+	‡	+	I	+	+	$\perp$	+	-		+		+		
	-	PRODUC	PRODUCTION	0.80	0.80 31.01	.31.11	힉	10.10	1.0.50	0.50.50.	50.30	.50.0	30,50,07,80,80,70	.80.7		H		H	$\square$	+	.86	85	.75.8	85	90	80.85.90.90.80	0.80	5.0	- 1	9010 3
																							11	$\ $					• 1	
FAC NO.	-	MANUF?	MANUFACTURER N.	NAME	PRODUCTION HINIMUM 1-8.5	CT101	N RATES	PES N	RATES MONTHS TO REACH MAX APTER D-DAY			K.	HE HI	EMEN	1 1	LEAD TIME	IME	$\prod$	ZZ ZZ	FKS	COME	PACING COMPONENT		T-M/1	HOUS	(U/M=THOUSAND/LB)		į		
		AKE CIT	LAKE CITY AAP IND MO		00.0	5.98		20.77	5	_		<u>, </u>	1 OCT	1 OCT	4		AFTER 1	SCT T	INI	INITIAL		9	1	11		- 1. - 1.	<b>=</b>	IOTAL 12		
7	딩	IN-ST.	OLIN-ST.MARKS, FL		0.70	0.83		1.00	0		TNTTTAL	LAI.	9	7	11		13		REC	REORDER		9		11		ı <del>-</del> -1		12		
							_	-		_		1	1			1												!		_

QUANTITY IN MILLIONS

OF 23 PAGES

PAGE NO. 17

P-1 LINE NO. 7

13

11

2

INITIAL

REQUIREMENTS CONTROL SYM DD-COMP (AR) 1092 E07	02 A A CALENDAR YEAR 02 T T	AUG SEP OCT NOV DEC JAN FEB NAR APR NAV JUN JUL AUG SEP R					0.00	0.00	00.0			00.0	0.00	0.00	0.00	0.00		00.0			0.00		00.0	00.0	00.00			PARAPKS CONDONIENT 111/W THISTONIENT	(U/M=THOUSAND/LB)	11 1 10	REORDER 6 11 1 12	OIIANTITIM INT WITHTHO	SUDTUTUI III TITTIONS
SOPRIATION/BUDGET ACTIVITY  OCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION    S	TO AS OF 99 CALENDAR YEAR	72	0.00	8.30	2.10 2.10	M A 9.10 9.10 0.00	1 M A 9.00 0.00 9.00 70.70.50.70.80.90.90.80.50.90.90	NS D CO C CO CO CO CO CO CO CO CO CO CO CO C	NS 0.20 0.20	M NS 0.50 0.50	1 M NS 0.55 0.00 0.55,10,10,05,10,10	SOF 0.19 0.19	SOF 0.00 0.00	M SOF 0.00	0.11 0.00		M AF D.00	AF 0.00 0.00	0.00 0.00	M AF D.00 0.00 0.00	1 MAF 0.50 0.00 0.50.10.10.10.10	1 00 0 00 1 1 00 0 0 0 0 0 0 0 0 0 0 0	M FMS 0.07 0.07	M FMS 0.00	FMS 0.00	M FMS 0.00 0.00 0.00 0.00 0.00	TOTAL MONTHLY 21.6 10.3, 95, 95, 96, 90, 90, 90, 80, 50, 90, 90	MANNITE A CHILDRE MANNITE A CHILDREN TO THE TABLES INCHIES TO PROCTIFEMENT LEAD TIME	1000	LAKE CITY AAP IND MO 0.00 5.98 20.77 5	0.83 1.00 0 INITIAL 6 2 11 13	REORDER 6 2 11 13	To a control of the c

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E07200	74		JUN JUL AUG SEF		00.00	0.00	0.00	00.00			00.00	0.00	0.00	0.00	0.00						0.00	(T.R)	TOTAL	12	12	LTY IN MILLIONS
1997		FISCAL YEAR	CALENDAR YEAR 02	OCT NOV DEC JAN FEB MAR APR MAY																			MPONENT (U/M=THOUSAND/L.B)		6 11 1	11	QUANTITY
DATE	IENCLATURE BALL/1 TRACE	01	CALENDAR YEAR 01	APR MAY JUN JUL AUG SEP																			LEAD TIME PACING COMPONENT	Ar.	AFTER 1 OCT	13 REORDER	13
(EXHIBIT P-21)	P-1 ITEM NOME CTG CAL .50 4	AL Y	CALEN	JUL AUG SEP OCT NOV DEC JAN					.50,90.90							23 23						90, 80, 50, 90, 90	PROCUREMENT LEA	ADMIN LEADTIME PRIOR   AFTER	۳I	INITIAL 6 2 II	REORDER 6 2 11
SCHEDULE	1. AMMUNITION	FISCAL YEAR	99 CALENDAR YEAR 00	OCT NOV DEC JAN FEB MAR APR MAY JUN					95, 95, 66, 95, 95, 90, 90, 90, 80,	T WITH UNDOCO	MCDOOL TATE					24 24 24 23 23 23 23 23 23						21.6 10.3, 95, 95, 66, 95, 95, 90, 90, 90, 80.	CTTON RATES HOWING TO	1-8-5	5.98 20.77 5	0.83 1.00 0	REC
PRODUCTION	ACTIVITY I, ARMY/ACTIVIT	ACCEP. BAL	1 1 Z	FY FY 1 cm 1 cm	96 99 99 99	1.19	8.37	2.30   2.30 0.00   P 71	10.3 0.00 10.3.	DA CTATA COMPONITARIE.	de Component:	33.0 0.00		62.0	272 0.00	280 24.0 256 2						PRODUCTION 21.6 10.3.9		& LOCATION NAME MINIMUM SUST.	D MO	OLIN-ST.MARKS, FL 0.70	
	APPROPRIATION/BUDGET PROCUREMENT AMMUNITION		NO.	'				ALL ALT.	ALL			K TOT	TOT	×	×	2 K TOT							+	NO.		2 OLIN	

	BUL	BUDGET ITEM JUST	STIFICATION SHEET	IEET		DATE	February 1997	
APPROPRIATION / BUDGET ACTIVITY	YTIVITY			P-1 ITEM NOMENCLATURE				
-	PROCUREMENT OF AMMUNITION /Ammunition	INITION /Ammunition				CTG CAL .50 SLAPT M903 (M962 TRACER) (F88000)	(M962 TRACER) (F88000)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	194	0	0	0	0	0	0	250
COST (in millions)	2.0	0.0	0:0	0.0	0.0	0.0	0.0	2.4

**DESCRIPTION:** 

the M2 Heavy Barrel Machine Gun. The item is code A, approved for service use. The item has not transitioned to the SMCA and will be procured at tungsten alloy penetrator has a slot in the base to insure full spin-up before separation from the sabot at the muzzle. The companion tracer cartridge, The Caliber, Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a heavy metal penetrator which is sabot launched at a much higher The penetrator base is cored out to accommodate a trace mix composition. This ammunition is linked four M903 SLAP to one M962 tracer for use in M962, consists of a tungsten alloy penetrator of the same mass as the M903 and is launched from a sabot of the same material and similar design. environment until launch; it is injection molded of special high strength plastic and is reinforced with an aluminum insert in the base section. The velocity than standard rounds, with Tracer, M962. The sabot is designed to break up at the muzzle to release the penetrator to survive the gun actual cost.

# JUSTIFICATION:

FY1996 procurement is intended for use against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition.

Type Classified (TC) Date: March 1993.



Ammo Cost Analysis	⋖	A APPN / BUDGET ACTIVITY TITLE/NO PROCUREMENT OF AMMUNITIC	T ACTIVITY ENT OF AI	APPN / BUDGET ACTIVITY TITLE/NO PROCUREMENT OF AMMUNITION / 1 / Ammunition	/ Ammunition	B. WEAPON CTG CAI	WEAPON CTG CAL 50 SLAPT M903 (M962 TRACER)	4903 (M962 TE		C. MANUFACTURER NAME OLIN II I		D DATE Febru	1E February 1997
	┪						(F88000)	000)	ACEN)		A, ILL		1001
			FY 96			FY 97			FY 98			FY 99	
Cost Elements	9	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	Qty	UnitCost
	+	\$000	×1000	s	\$000	×1000	\$	\$000	×1000	\$	000\$	×1000	\$
1. COMPLETE ROUND 2. M2A1 METAL BOX	<	1486	194	7.66									
Subtotal AMMO Hardware		1498			G			· · · · · · · · · · · · · · · · · · ·			c		
				•							•		
Production Support Costs 1. Production Engineering 2. Quality Assurance 3. Acceptance Testing 4. Interim Transportation		238 90 110 6			***************************************							ч,.	
Subtotal Prod. Support		444			0			0			0		
COST - Nonrecurring 1. ENGINEERING CHANGE		7.7											
Subtotal COST-Nonrecurring		77		The state of the s	0			0			0		
									· · · · · · · · · · · · · · · · · · ·				
												<u> </u>	
		2019		10.41	0			0			0		

FY 96

1. COMPLETE ROUND   1   FF4 06   March   Mar	FY 98 / 99 BUDGET PRODUCTION SCHEDIII E		ICTION	SCHE	HII F			P-1 ITEM NOMENCLATURE CTG C	1 NOME	NCLA	TURE TG CA	50	SI AP	W 90	\$ 50 E	2 TRA	E E	FRBO	٤			DATE	<b>.</b>		1 4 7	yarv 1	266			
MAYETE ROUND  1 FY 96 A 194 B 11 13 B 12 B 12 B 12 B 12 B 12 B 12 B						ACCEP.	BAL				FIS	is V	ear	F				L		l		Fis	Sal	ear	86				r	_
MAPLETE ROUND  1 FY 96  A 194		Σ				_	DUE						Ö	alen	dar	ear	97	-			L		ပ္မ	lend	ar√	ear	86			<
MATIETTE ROUND  1 9566PT MC 700 d61 239 in in in in in in in in in in in in in		πα	Ŧ	ш ш >			AS OF 1 OCT	<u> </u>		¬ ∢ Z	ш ш <b>в</b>		<del>                                     </del>	<b></b> -		<u> </u>	<u> </u>	<u> </u>	Z 0 >	ОШО	¬ ∢ Z	ппв	Σ∢α	4 L L	Σ∢≻	¬ ⊃ Z	- 0 -	∢⊃७	SПG	⊢шα
MAPLETE ROUND  1 95-8PP MC 700 461 239 to 10 to	1. COMPLETE ROUND	H							$\Box$				$\vdash$	$\vdash$	╁	╀	┞	<u> </u>	L									Г		0
MPLETE ROUND 1 1 9956P- MC 700 461 229 119 119 11 1 1 1 1 1 1 1 1 1 1 1 1		-	FY 96	٧	194	81	113	Н	Ц		22	H	-	_	3		L													0
MPLETE ROUND  1 9558P7 MIC 700 461 239 119 119 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1		$\dashv$									П	H	H	Н	Н	H	Н													0
MAMETITE ROLIND   1 9568Pr MC 700 461 239 19 10 10 10 10 10 10 10 10 10 10 10 10 10									Щ				_	_		H	H	_												0
MADETE ROUND  1 9558PP MC 700 461 239 19 19 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									Ц		П	Н	Н	H		H	igdash													0
MAPLETE ROUND 1 9 956-P MG 700 461 239 in in to in 3 3								Н			П			_	H	$\vdash$														0
AMMELLOCATION  WARE LOCATION  WAS 1-65		-	95⪻	Q W	90,	461	239			3				Н																0
### NAME LOCATION WITH THE PROJECTION RATE   18		$\dashv$						$\vdash$					H	H	Н	Н	$\vdash$	Ш	Ш	Ш										0
MANE LOCATON   MANE   1-65   Mane									$\Box$				Н																	0
MARK LIOCATION   MIN   1-6-5   MACK								$\dashv$																						0
MAME   LOCATION   MIN.   Les   MAME   MIN.   Les   MIN.														-		_														0
A		H						Н					Н	Н																0
1														Н																0
Mark Location   Mark Locatio								-								$\dashv$	4													0
Second Second		$\neg$						$\dashv$	$\overline{\parallel}$		$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	4		_											0
100   100								$\dashv$	$\dashv$		$\dashv$	1	$\dashv$	$\dashv$	_	$\dashv$	$\dashv$													0
Separation   Sep								-	$\exists$		$\dashv$	1	$\dashv$	$\dashv$	$\dashv$	$\dashv$	4	_	_											0
See   Sec		ᅥ						-	$\exists$		$\dashv$	1	$\dashv$	$\dashv$	4	-	$\dashv$	_	_											0
Second Control Name   Second Control Name		$\dashv$						$\dashv$	$\dashv$		1	+	$\dashv$	$\dashv$	$\dashv$	4	4	_	_											0
Separation   Sep		$\dashv$			+				$\dashv$		$\dashv$	+	+	$\dashv$	$\dashv$	$\dashv$	4	_		$\perp$										0
Second Second		$\dashv$						$\dashv$	1		+	$\dashv$	$\dashv$	$\dashv$	_	-	4	4	_	$\perp$										0
1		$\dashv$						$\dashv$	$\prod$		$\forall$	$\dashv$	+	+	+	+	4	4	_	$\perp$										0
Manage   M		寸				+	$\dashv$		_		-	-	-	+	$\dashv$	+	_	$\dashv$	$\downarrow$											0
C   O   E   M   M   M   M   M   M   M   M   M	TOTAL				894	542	寸	_	_	~	-	-			_	_	4	4	_											
NAME LOCATION         MIN.         1-8-5         MAX.         D+         1 INTIAL         Prior 1 Oct.         After 1 Oct.										¬ ∢ Z	т п <b>в</b>			Σ < >	777				z 0 >		7 K Z	т п в	≥ ∢ ¤	4 d G	∑ < ≻	סכר	ر 0 اد	< ⊃ 0	S II I	
NAME / LOCATION         MIN.         1-8-5         MAX.         D+         1         INTIAL         A 6         7         13           Olin, East Alton, IL         60         220         440         REORDER         4         6         7         13           INTIAL         INTIAL         INTIAL         REORDER         REORDER         1         1           INTIAL         INTIAL         INTIAL         INTIAL         INTIAL         INTIAL         INTIAL           INTIAL         INTIAL         INTIAL         INTIAL         INTIAL         INTIAL         INTIAL           INTIAL         INTIAL         INTIAL         INTIAL         INTIAL         INTIAL         INTIAL	Σ 1	_	H.	ODUCTIO	RATES	Ť	_	MFK Parent					1	AUMIR Post	₫L	MI S	į	·	MFF	8	•	OTAL		E.	MARK	s>				
Olin, East Alton, IL         60         220         440         REORDER         4         6         7           INITIAL         REORDER         REORDER         REORDER         REORDER         REORDER         REORDER         REORDER         RECREA			MIN	ę,			_	-	_	ږ		+	5	4	╀	9	<u> </u>	1	13		Ĭ	19	<sub>5</sub>	Actua	H Proc	dcution	n Deliy I Contr	eries Fact Mo	3ased od	
INITIAL   INITIAL   REORDER   REOR	Olin, East Alton, IL	t	09	22	2	440			REO	3DER	Н	H		4	Н	9			7			₽								
REORDER INITIAL RIVIAL INITIAL INITIAL INITIAL REORDER PAGE 3 30 7 3		H							Ē	الرا	H	H			H			Ц												
INITIAL INITIAL INITIAL INITIAL REORDER INITIAL REORDER Page 3 3 of 2 3		$\dashv$			+	†	1		REO	GER.	†	+			+			4	١		╛									
INITIAL REORDER INITIAL REORDER Page2 3 of 2 3		十	T		+	+	T		REO	"t ?DER	T	+			┿			$\downarrow$		T	$\perp$		T							
REORDER INITIAL REORDER Page2 3 of 23		$\dagger$					T		Ĭ	رِ	t	H			╀	l		Ļ	l	Ι	L		T							
INITIAL REORDER Page23of 23		T			$\prod$		T		REO	3DER	H	H			H			Ц		П			П							
Page 230f 23		$\sqcap$			$\dagger$	+	$ \top $			ي لي	$\dagger$	+			+		İ	_					П							
C1 (200)		4			1	1	Tel.	No. 7	1	30,	1	1			┨					1	╛		7		l					

		ļ							DATE			
1	BUDGET ITEM JUSTIFICATION	ITEM	JUS	TIFIC.	ATI	ON SHEET	ET		Ē	;		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIVIT	ΓΥ				P-1 ITEM NOMENCLATURE	NCLATURE		rebruary 1997	Ž.	75.	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMM	MUNITION, ARMY	(/ACTIVITY 1	I. AMMUNI	VITION		CTG CAL .50 APT, MK211 MOD O	T. MK211. MOI	C			(F47.100)	ŝ
	FY 96	FY	97	Х́З	ασ	P.V	00					
OIIANTITA								+	ri OI	70	£	ŝ
THOUSANDS	240	329		286		-0-	-0-	······································	-0-		0 - / - 0 -	
CORT					$\dagger$			+		+		T
(In Millions)	\$ 1.9	\$ 2.0		\$ 2.0	᠕	-0-	-0- \$	₩	-0-	৻৽	-0-/-0-	

#### DESCRIPTION:

and personnel. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary Incendiary Tracer cartridge. The cartridge provides improved penetration performance against light armor vehicles For machine gun use the Grade B MK211 will be linked in a 4:1 ratio with the caliber .50 M20 Armor piercing and high explosive charges.

## JUSTIFICATION:

This is a War Reserve item, used in combat. FY 98 procurements are building toward the War Reserve reguirement.

TYPE CLASSIFICATION DATE: 9 February 1996

N
0
0
_
1
$\Box$
Æ
_
£
ᇟ
Ŧ
8
RCS:

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS) APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG CAL .50 APT, MK211.,MOD 0

PCN:P02QM1D0C4Z DATE: FEBRUARY 1997 NSN = 1305-01-249-6888
--

	FY 96 (QTY	2398	(00)	FY 97 (QTY	326536)	536)	FY 98 (QTY	285	285568) FY	FY 99 (QTY		_
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	φTγ	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP)	239800	6.05	1450	328536	0.38	126	285568	0.44	125			
_	• <b>3</b> •• <b>3</b>			262829	5.54	1456	228455	6.32	1444			
138 148 148	God God God G			65708 331493 3352	1.79 0.06 5.03	118	57114 288139 2913	2.04 0.07 5.74	117!			
SUBTOTAL			1450			1736			1722			
PRODUCTION SUPPORT     1. PRODUCTION ENGINEERING	EERING		494						176			
2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARGE	E NG TATION SUPPORT SURCHARGE					21 191 161 681 2031			20! 12! 60!			
SUBTOTAL			464			308	:		272			
**************************************	************	******* 8.11	1944	1944	****** 6.22	2044	***********	6.98	1994!	****	* * * * *	* * * * * *

8 P-1 ITEM NO.

NZVIŽC-VMCCOM

2 of 5 PAGE NO.

		PROCUREMENT	HISTORY	PROCUREMENT HISTORY & PLANNING		DATE:	1	FEBRUARY 1997	7.
APPROPRIATION/BUDGET ACTIVITY			P-1 I	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-	1305-01-249-6888	8889	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	TY 1. AMMUNITION	TION	CTG CAL	AL .50 APT, MK211	MK211.,MOD 0	; 1 1 1 1 1 1 1	1	(F47	(F47400)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1996 OLIN CORP FACT ALTON TI	C/FP	NAVY	96 NDC	JUL 96	239800	6.05	 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1997 TBS FY 1998 TBS	C/FP C/FP	100	JUL 97 MAR 98	JUL 98 MAR 99	328536 285568	0.38	YES YES	22	
2. CTG CAL .50 MK 211 API GRADE B FY 1997 TBS FY 1998 TBS	C/FP C/FP	100	JUL 97 MAR 98	JUL 98 FEB 99	262829 228455	5.54 6.32	YES	<u> </u>	
3. CTG CAL .50 M20 API-T FY 1997 OLIN CORP (LAKE CITY AAP)	SS/CPAF	IOC	MAR 97	DEC 97	65708	1.79	YES	<u>Q</u>	
INDEPENDENCE, MO FY 1998 OLIN CORP (LAKE CITY AAP) INDEPENDENCE, MO	SS/CPAF	IOC	NOV 97	OCT 98	57114	2.04	YES	9	
4. LINK M9 FY 1997 TBS FY 1998 TBS	C/FP C/FP	IOC	MAR 97 JAN 98	DEC 97 JUL 98	331493 288139	0.06	YES	88	
REMARKS:			; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	! ! ! ! ! ! !		1	

TBS - To Be Selected

P-1 ITEM NO. 8 PAGE NO. 3 of 5

EXHIBIT P-5A

PAGE NO. 4 of 5

P-1 ITEM NO. 8

PCN POZQMIDOD42	:	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	, , , , ,	1 1 1 1 1 1
	2 1 1 1 1 2 3 3 4 1	PROCUREMENT HISTORY PLANNING	HISTORY	PLANNING	1 1 2 2 3 3 4 3 5 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6	DATE: FEBRUARY	FEBR	FEBRUARY 1997	7
APPROPRIATION/BUDGET ACTIVITY			P-1 J	P-1 JI - 1 NOMENILATURE	ATURE	NSN = 1305-01-249-6888	-01-249-	6888	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	VITY 1. AMMUNITION	NOIL	CTG CA	.50 APT, MK211.	CTG CA . 50 APT, MK211., MOD 0		1	(F4740	(F47400)
M/ EAR CONTRACTOR	CONT METH	CONTRACTED BY		HATE OF FIRST HELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
ETAL MZA1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1	 	3 †	; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	; ; ; ; ;
FY 1997 TBS FY 1998 TBS	C/FP C/FP	100	MAR 97 JAN 98	DEC 97	3352 2913	5.03	YES	20	
REMARKS:	P	1 1 1 1 1 1 1 1 1 1	1 2 3 4 5 5 6 5 7 9 8 8	1 1 5 6 1 7		; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TBS - To Be Selected

1. AMMUTTON   2. AMMUTTON   2. AMMUTTON   3. AMMUTTON   4. AMMUTTON   5. AMMUTTON		REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	
Fig.   Processor Or   No.   No.   Processor   Proces	ARMY/ACTIVITY 1. AMMUNITION CTG CAL .50 APT, MK211., MOD 0	F47400	9
V   V   V   V   V   V   V   V   V   V	S PROGRAM QTY Fig. 8 P. S. S. S. S. S. S. S. S. S. S. S. S. S.		
\$\frac{15.6}{15.0} 15.	V FV FV FV FV FV FV FV FV FV FV FV FV FV	66	
A	96P 97 98 99 96 96 96 70 700 PEC JAN PEB MAR APR NAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	APR MAY JUN JUL AUG SEP	~
Authority   Auth	A 0.00	0.00	9
All	A 329 0.00 329	0.00	9
Main	A 286 0.00 286	145	2 2
MALE   240   0.00   0	A 0.00 0.00	C.F. T	2 0
ALL   200   0.00 0.00			
MAL   246   0.00   286   0.00	0.00	c	9
Mail	240 240		2 0
Additional Control C	329 0.00 329	0.00	0
MANUFACTION   PROPERTY   Last Advised   Marie   Manufaction   Manufact	286 0.00	145	0
WANTPACTURER NAME   PRODUCTION RATES   STATE			T
PRODUCTION NAME   PRODUCTION NAME   PROCUREMENT LEAD TIME			
PROBLEMENT   240 615			Т
PROBLETION   240 615			T
ANNUAL PARTICIPAL   14.0   140.0   140.0   544.0   6   12   18   18   18   18   18   18   18			T
PRODUCTION RATES   WARREN TO   140.0   140.0   540.0   6   12   18			1
PRODUCTION NAME   PRODUCTION RAITES   PROTURE RAITES			Т
Charge   C			
Comparison   Com			$\top$
Continue   Continue			
Character   Comparison   Comp			1 1
The months   Capture   The color   The c			
MANUFACTURER NAME   PRODUCTION RATES   Remarks   Remar	240 615		Π,
MANUFACTURER NAME   PRODUCTION   KATES   STATES   MAXIMUM   ATTES   STATES   MAXIMUM   ATTES   STATES   MAXIMUM   ATTES   AT			<u>ы</u>
SELECTED	MANUFACTURER NAME PRODUCTION RATES MAKINGM ATTER D-DAY ATTER D-DAY RECOGNITION SUST. 1-8-5 MAKINGM ATTER D-DAY RECOGNITION AFFER PLANT PROPERT PLANT RECOGNITION AFFER PLANT PROPERT PLANT PROPERT PLA		
6 6 12 18 8 PAGE NO. 5 OF 5 PAGES	SELECTED 140.0 140.0 504.0 6 1NITTAL 6 6 12 18		
8 PAGE NO. 5 OF 5 PAGES	6 6 12	QUANTITY IN THOUSANDS	
	8 PAGE NO. 5 OF 5		$\neg$
		•	

	SHEET
)	JUSTIFICATION
	ITEM
	BUDGET

	1007
DATE	V4 6114444

APPROPRIATION/BUDGET ACTIVITY  PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION  FY 96 FY 97 F  QUANTITY -0-						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMM FY 96 FY 97 QUANTITY -0-			P-1 ITEM NOMENCLATURE	ICLATURE		
FY 96 FY -0-	ITY 1. AMMUNITI	NO	CTG 20MM ALL TYPES	YPES		(E08900)
-0-		FY 98	FY 99	FY 00	FY	01 02 FY 03
	-0-	-0-	-0-	-0-	-0-	-0-/-0-
COST (In Millions) \$ -0- \$ .3	٠. ئ	0-	-0- \$	-0- \$	-0- \$	-0-/-0-\$

DESCRIPTION:

This budget line includes 20MM ALL TYPES.

	<del> </del>	AMMUNITI	TTIC	N CC	)ST	ANAL	ON COST ANALYSIS	(DOLLARS	Z	THOUSANDS)	NDS)	
APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVI	₽	ACTIVITY: ARMY/ACTIVITY 1. AMMUNITION	MUNITION	CTG, 20M	M, ALL TY	20MM, ALL TYPES (E08900)	(0)		TE	FERRIDARY 1997	97	
	FY	96			97		FY	86		FY	66	
SSN/ITEM:	QTY	UNIT	TOTAL	ŶŢŎ	UNIT	TOTAL	OTY	UNIT	TOTAL	OTY	UNIT	TOTAL
(E08902) CTG 20M4 LINKED TP M55A2/TPT 4220 LINKED W/14	0	00.0	<b>O</b>			. ·	O	0.00	O	0	0.00	6
TOTAL P-1 LINE ITEM			0			300			0			0
DD FORM 2448, AUG 89				P-1 ITEM NO.	NO.	9 PA	PAGE NO. 2	OF 2	i i	EXHIBIT P	P-5	

										DATE		•	
Щ	BUDGET ITEM JI	LTEM	JUS	USTIFICATION SHEET	LL		五因五	H		F.	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIVIT	Ϋ́			$\vdash$	P-1 ITEM NOMENCLATURE	NOMENC	LATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, ARMY	/ACTIVITY		AMMUNITION	_	CTG 25MM ALL TYPES	LL TY	PES				(王0	(E08200)
	FY 96	FY	97	FY 9	86	FY	66	FY	00	FY	0.1	01 02 FY	0.3
QUANTITY	-0-	-0-	1	-0-		-0-		-0-		-0-		0-/-0-	C
COST (In Millions)	\$ 68.2	\$ 79.9	6	\$ 88.2	łs	50.0	₩.	\$ 52.3		\$ 53.1		\$ 54.9/56.0	56.0

#### DESCRIPTION:

This budget line includes 25MM ALL TYPES.

1 of 17

	A	AMM IITI	ITIC	N CC	)ST	ANAL	ON COST ANALYSIS	(DOLLARS	ZI	THOUSANDS	VDS)	
APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVI	T ACTIV	ĭ¥ 1.	AMMUNITION	CTG, 25MM,	M, ALL TY	ALL TYPES (E08200)	6		DATE	FEBRUARY 1997	97	
		1		i i			FY	86			66	
SSN/ITEM:	QTY	UNIT	TOTAL	ΥΤΌ	UNIT	TOTAL	OTY	UNIT	TOTAL	OTY	UNIT	TOTAL
(E08201) CTG 25MM HEI-T M792	0	00.0	411	0	00.00	0	0	00.0	0	0	00.00	0
(E08203) CTG 25MM IP-T M793	1240	17.97	22281	488	14.72	7174	1313	15.61	20488	1078	15.93	17184
(E08204) CTG 25MM TPDS-T M910	2272	20.02	45487	2325	17.19	39957	1453	17.68	25678	1819	18.05	32821
(E08210) CTG 25MM APFSDS-T M919	0	00.0	0	255	128.60	32793	325	129.24	42000	0	0.00	0
·	•					·						
TOTAL P-1 LINE ITEM			68179			79924			88166	-		20002
DD 2448, AUG 89				P-1 ITEM NO.	NO.	a a	PAGE NO. 2	OF 17		EXHIBIT P	P-5	

	SHEET
<b>}</b>	JUSTIFICATION
	ITEM
	BUDGET

1997
FEBRUARY

APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITEM NOMENCLATURE	NOMEN	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION,	ARMY/A	ACTIVITY 1.	AMMUNI	TION		CTG 25MM TP-T M793	TP-T M	1793				(E0	(E08203)
	FY	96	FY	97	FY	98	FY	66	FY	0.0	EY 0	1	01 02 FY	03
QUANTITY		1240	488		1313		1078		1120		1092		1102/1087	1087
(Thousands)														
COST (In Millions)	٠	22.3	\$ 7.2	₩	20.5		\$ 17.2		\$ 18.2		\$ 18.2	01	\$ 18.8/19.0	19.0

The M793 cartridge is a percussion primed 25mm Target Practice-Traced (TP-T) cartridge with M28 link for use in the The M793 training round is ballistically matched M242 gun which is mounted on the Bradley Fighting Vehicle System. The M793 training round is ballistically matche to the M792 High Explosive Incendiary-Tracer (HEI-T) ammunition. This round will be packaged/shipped in the M621 plastic container, 30 rounds per container. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price.

## JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 25MM TP-T M793

DATE: FERRUARY 1997 NSN = 1305-01-356-0189 (E08203)

PCN: P02QM1D0C45

	FY 96 (QTY		1239900)	FY 97 (QTY		487501) FY 98	FY 98 (QTY		1312679)	FY 99 (QTY		1078400)
ELEMENT OF COST QM: EACH	YTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	ΥŢΏ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.CONTAINER PA125	1239900	14.11	17499	487501	12.47	6079	1312679	12.42 31.37	16305	1078400 36019	12.68 32.02	13676
SUBTOTAL			17499			6029			17680			14829
PRODUCTION SUPPORT			· <u></u> .						-: <b>-</b> -			
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION	ENGINEERING SURANCE TESTING ANS PORTATION		542 2011			251! 9!!			1807			1516 37 171
	STOCK SUPPORT LOSS SURCHARGE		3199			711			627			524
SUBTOTAL			4782			1095			2808			2355
**************************************	*****	17.97	22281	*****	14.72	7174	* * * * * * * * * * *	15.61		**************************************	15.93	17184

P-1 ITEM NO. 10 PAGE NO. 4 of 17

	1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:		FEBRUARY 1997	1
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305 - 0	1305-01-356-0189	189	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNIT	LION	CTG 25	25MM TP-T M793	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ;	(E08203)	03)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	TE YES WHEN AVATL
1. LOAD, ASSEMBLE, AND PACK (LAP)	!   	1 1 1 1 1 1 1 1 1	1	 			: : : !	1 !	
FY 1996 ALLIANT TECH SYS, INC	C/FP	IOC	APR 96	MAY 97	770130	# 11.40			
FY 1996 OCHN ORDNANCE	C/FP	IOC	APR 96	MAY 97	469770	# 12.47			
FY 1997 TBS C/F FY 1998 TBS C/F FY 1999 TBS C/F	C/FP C/FP C/FP	10C 10C 10C	MAR 97 MAR 98 MAR 99	MAY 98 MAY 99 MAY 00	487501 1312679 1078400	12.47 12.42 12.68	YES	NO NO	
2. CONTAINER PA125									
FY 1998 TBS FY 1999 TBS	C/FP C/FP	IOC	MAR 98 MAR 99	MAR 99 MAR 00	43844 36019	31.37	YES	ON	
REMARKS:							; ; ; ; ;		

# ACTUAL CONTRACT PRICE FOR MULTIPLE PRODUCERS TBS - To Be Selected

APPRO	OTTATIO	PI  PERPETATION /BINGET ACTIVITY  PE	I	PRODUCTION	CTIOI	1 1	SCHEDULE		(EXHIBIT	P-	21)				DATE	FEBRUARY	γY 199	97		REQUIE	REMEDIT	RECUIREMENTS OF NTROG. DD-COMP (AP) 1002	d. symbol,	, Je
PROC	UREMENT	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	ARMY/A	TIVIT	1. A	/ 1. AMMUNITION	NO			P-1 I	5° 50	M NOMENCLATURE M TP-T M793	LATURE 3	ļ										E08203
FAC	លមា	PROGRAM (	QTY PRIOR	BAL	TSCAL	YEAK	97			FISCAL	AL YEA	R 98				FI	FISCAL	YEAR						<u>-</u>
	∡ > —⊥	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2 de 1	AS OF 1 OCT	96	CALENDAR YEAR	1 YEAR	97			CALE	CALENDAR YEAR		98		$\frac{1}{2}$		CALENDAR	IDAR YEAR		66			<:
	$\dagger$	F.Y.	FY 00	$\neg$	OCT NOV DEC		JAN FEB MAR APR	MAY JUN JI	JUL AUG SEP	P OCT NOV	DEC JAN	FEB MAR	APR MAY	JUL JUL	AUG	SEP OCT	NOV	DEC JAN FEB		AFR	MAY JUN	.TUL AUG	SEF	ພ≃
-	M A D		П	000	+	+	$\downarrow$		+	+				H									П	
~	Ą	0.33	0.33	00.0	+	+	1	<u> </u>	+	$\downarrow$	1	$\frac{1}{1}$	-	+		$\dashv$	1	$\prod$	_		$\dashv$			0.00
	A	0.77	00.00	0 0.77	-	-	1	2000	1,1	+			1	+	1	$\downarrow$		7	$\dashv$	1	_		_	00.0
2	M A 0.	0.47	00.0	0 0.47	-		L	10 10 1	10 10 07	1		1	+	+	1	+	1	1	+	1	+	$\perp$	_	00.0
3		0.49	0.0	이	+	-		10.10	•1	+			000	7	1	-	$\frac{1}{2}$	1	-	1	+			0.00
3	M A	1.31	00.00	0 1.31	-			+	+	+			. 50	.20.09	1	$\downarrow$		1	+	1	. 1			0.00
<u>س</u>	M A		1.08 0.00		+	-			+	$\perp$	Ī	+	+	+	1	_	+	1	+	1	20.20	.20	20.200	200.31
												-	-	+			+	1	+		+	$\pm$		0.0
	SOF	0.00	0.0	0.00 00.00									H	+		$oxed{\Box}$	+	1	+	$\downarrow$	+			00 0
	SOF	0.00	0.0	0.00 0.00							E	F	-	$\vdash$	L	-	+	Ţ	+		+	1	7	
_		0.05		0.00 0.05			$\frac{1}{1}$						.05	$\vdash$			-		+	_			3 0	00.00
		00.00		0.00 0.00	<del> </del>									-			L	L		L	-			
m	M SOF		0.10 0.00	0.10	$\dashv$									-		L	+	1	-	1	-		215	00.0
-	3	7	- ;	_	+	_		+	1					H					-		-			2
٦,	M MC D. L.L	T 0	0.11	00.0	+	+		+	+	$\frac{1}{1}$		7	-								_			0.00
<b>』</b> -	کے اید	22	20.00	0.09 0.00	+	+	$ar{1}$		+		1	+	+	+		4	-						0	0.00
2	Ž.	18		0 00 0 18	+			77.07	+		1	+	#	+		1	$\dashv$		$\dashv$				0	0.00
					-	+		00.01	1		†	+	#	+		7	+	1	$\dashv$		1		0	0.00
							L	-			<u> </u>	+	+	-	$\dagger$	1	+		+	1	-	-	1	
	ALL 0.93	93	0.93	0.00							F		-	-	$\pm$	1	+	1	+	$\downarrow$	-	+	1	
	릐	. 64	0.00	1.64				50,50,30	0.27.07				<u> </u>	L		1	-	1	+		-	-		00.00
	ALL	0.54	0.00	0				П					.25.	20.09	-	1	-	1	-		-	+		00.0
	ALL	1.31	0.00	1.31							F					I	-	‡	-	Ï	- 1	- 6	1	• 1
	ALL		.18 0.00	1.18										F	+	1	+	1	-		70.70	07.07	7.700	• 1
						$\frac{1}{1}$											-		-		-	+	-	2
			1	1	+	$\frac{1}{1}$	1	+	+	1	+	+		1			H		$\Box$			$\perp$		
			-		$\downarrow$		1	+	1	-	+	+	+	$\mp$	1	1	+		$\dashv$					
					-						+	+	+	1	+	1	+		1	$\perp$	7	-		
	PRC	TOTAL MONTHLY PRODUCTION	0.93	4.67				50.50.30	30.27.07			Ħ	.25.20	20.09	+		+	+/,	$\prod$	77	20.20	.20.20	.201	49
FAC	-	MANUFACTURER	NAME	PRODUCTION RATES HOW HAX	TION	WATES #	CATHS TO		PRO	CUREME	NT LEAD	D TIME	E	REM	REMARKS									
<u> </u>	T	ALLIANT TECH CVC		SUST	1-8-5 0 26	MAXIMUM A	AFTER D-DAY		ERICA SELECTION	PRIOR AFTER	AR BROD		TOTAL											
7	OLIN C	OLIN ORDNANCE II	11	0.08	0.20		20	TMTTTAL		9 9			20											
_	13 BE	TO BE SELECTED		0.08	0.20	0.52	0	RECRUER		+	;													
				-		1				4	14		18	_					[	TAMP	OHANTER IN MALE			_

QUANTITY IN MILLIONS

P-1 LINE NO. 10 PAGE NO. 6 OF 17 PAGES

1 2	F08203	3 -2'	— < <sup>[-</sup>		0.00	0.00	0.00	0.00	00.00	0.00	0.00	00	00.0	00.0	00.0	0.00		0.00	00 0	00.00	0.00			0.00	0.00	00.0	0.00	0.00				0	00.0					S
Red. SYMBLE	F08	i		SEP	1			$\prod$	$\perp$	$\downarrow$	$\perp$	_				$\Box$	_	$\perp$		$\prod$		$\prod$	$\perp$		$\perp$	$\prod$	_	$\int$	$\bot$	L		$\int$	_					IN MILLIONS
1 E 3				AUG	+-	-		-	+	_	-	-	_	-	Щ	$\dashv$	4	$\dashv$	4	_	$\perp$	+	$\downarrow$	4	4	$\downarrow$	_		_	-		$\perp$	41					
1001 C				707	+	H	$\vdash$		-	_	+	$\perp$	$\vdash$	_		$\dashv$	$\dashv$	+	-	$\dashv$	+	_	+	$\downarrow$	-	$\downarrow$	+	+	+	$\vdash$		$\downarrow$	$\exists  $				;	2
REQUIREMENTS  DD COMP (AR)				21.62	+	-		$\dashv$	1		$\dashv$	+	╀	-		$\dashv$	$\dashv$	+	+	+	+	+	+	+	+	+	$\dashv$	+	+	$\vdash$	$\dashv$	-	$+ \parallel$					
COMP			0	AFR MAY	+-				$\dashv$	$\dashv$	+	+	$\vdash$	_			$\dashv$	$\dashv$	_	+	-	+	+	+	+	+	+	+	+	Н	$\perp$	-	-				į	COMINITIA
P.F.		4	YEAR	$\overline{}$	+-	<del> </del>	H		$\dashv$	+	+	+	+	$\vdash$		$\dashv$	$\dashv$	+	+	+	+	$\dashv$	+	+	+	$\dashv$	+	+	╁	H	$\dashv$	╁	$\parallel \parallel$				í	
ļ			AR YE		-	$\vdash$			$\dashv$	1	$\dashv$	1	$\vdash$	$\vdash$		$\dashv$	+	+	+	$\dashv$	+	$\dashv$	+	$\dagger$	1	$\dashv$	$\dashv$	+	+	H	+	+	$\parallel$					
		YEAR	CALENDAR	NA.	$\top$	1				7	+	+			П	$\neg$	┪		1	+	$\dagger$	$\top$	$\dagger$	$\dagger$	$\dagger$	$\dagger$	$\dagger$	$\top$	$\dagger$		$\forall$	$\dagger$	1					
1997				DEC																		$\top$		T			1	1	T	$\Box$		1	1					
1		FISCAL		NOV																													]					
FFRRITARY		FI	4	ξ	_	$oxed{oxed}$				_	_	1	_	_	Ц		4	4	1	4	1	$\downarrow$	_	1	4		$\perp$	_	_	Ц		$\perp$	]					
E G				3 SEP		ļ	<u> </u>	Щ	-	_	4	_	╀	-	Н			+	_	4	$\downarrow$	4	4	4	4	4	4	$\downarrow$	$\downarrow$	$\sqcup$	4	╡.	]   <u>«</u>	2				
DATE				IL AUG	_	╀	-		$\dashv$	$\dashv$	+	+	╀	-			$\dashv$	+	+	+	+	+	4	+	+	_	+	+	+	$\vdash$	$\dashv$	+	REMARKS	1				0000
F	1		0.1	JUL JUL	+-	+-	$\vdash$	Н	$\dashv$	$\dashv$	$\dashv$	+	+	$\vdash$	Н	$\dashv$	$\dashv$	+	+	+	+	+	+	+	+	+	+	+	+	H	$\dashv$	+	┧╚	<u></u>				. 1
	RE		C	MAY	+	十	$\vdash$		$\dashv$	ᅥ	+	╁	$\vdash$	$\vdash$	Н		$\dashv$	+	+	$\dashv$	+	+	+	+	+	+	+	+	+	Н	+	+	1		2CT			
	NOMENCLATURE			APR	+	t				7	$\top$	+	T		Н		1	$\top$	_	$\dagger$	$\dagger$	$\dagger$	Ť	1	$\dagger$	$^{\dagger}$	+	+	+	╁┼	+	+-	1	迅	TOTAL AFTER 1	20	7	
1	NCL	FISCAL YEAR	U.L										T		П		1	1	1	T	1	T	T	1	†	1	$\top$	$\top$	$\dagger$	T	1	1		LEAD TIME	AFT		_	
	OME	1 24 1 24	CALENDAR YEAR	JAN FEB																														AD	ω.	4		ءِ ا
١.	ŽΈ	YEA	5	$\rightarrow$	$\perp$		<u> </u>			4		$\downarrow$	Ŀ	L			4	4	1	1	$\downarrow$	4		1	1		4		$\perp$						PROD	1	14	ON ADVA
-21)	ITEM 25mm	AL		V DEC	+	-	Н			4	_	+	╀	L		$\dashv$	-	+	+	4	4	+	+	4	4	+	$\downarrow$	4	$\bot$	$\sqcup$	_	4	4	ENT	TER	9	4	1 1
	P-1	ISC		OCT NOV	+	╁	Н			-	8	╁	╁	┝	Н	$\dashv$	$\dashv$	+	+	╬	+	+	+	+	+	+	+	8	╁	$\vdash \vdash$	+	l <sub>e</sub>		JREN	A-L		-	-
F	, <del> </del>	-	┪	SEP 0	+	T				┪	20	+	╁	H	H		$\dashv$	+	+	+	$\dagger$	+	+	+	$\dagger$	+		207	╁	Н	+	20 20 08		PROCUREMENT LADMIN LEADTIME	RIOR	9	ی ا	1 1
[B]				AUG							207	$\top$	T		П		寸	$\top$	1	†	†	$^{\dagger}$	$\dagger$	†	1	+		히	$\dagger$	Н	$\dagger$	5		II.	.,	<u> </u>	HH	-   <u>2</u>
(EXHIBI				JUL							.20																	.20		П		2				TATEMTAT	INI LIAL REORDER	D-1 LINE NO
Ξ		.	8		_	L			_		0.20	╧		L			$\dashv$	$\downarrow$	_	$\perp$	$\perp$			$\perp$				.70				20 20				1	RE	] [
Щ				ğ	$\bot$		Н			_	.20	4	$\perp$	┞	Ц		$\dashv$	$\dashv$	4	4	4	4	4	$\downarrow$	4	4	1	207	+		4	15			<u> </u>	ΤI	-1	7
ΙĦ			5	MAR APR	+	-			-	$\dashv$	+	+	╀	┝		10	$\dashv$	+	+	+	+	+	+	+	+	+	+	21	+	$\left  \cdot \right $	$\dashv$	ļ-	] ?]	CH NO.	-0 H3			
SCHEDUL	Z		OU CALENDAR YEAR	FEB W	╁	$\vdash$	$\vdash$		$\dashv$	$\dashv$	+	+	+	$\vdash$	$\vdash$		$\dashv$	+	$\dashv$	+	+	+	$\dashv$	+	+	$\dashv$	+	7	╁	H	$\dashv$	+	1	PRODUCTION RATES MONTHS TO	1 2		0	4 ]
SC		EAR	ALEND.	JAN	$\dagger$	H	Н	$\dashv$			十	╁	+	_		$\dashv$	+	$\dagger$	$\dagger$	+	†	$\dagger$	$\dagger$	$\dagger$	$\dagger$	+	+	$\dagger$	$^{+}$	Н		$\dagger$	1	E	XIMUM 0 75	0.52	0.52	
Į	A MM	FISCAL YEAR	۲	Dig.	†	T	П			$\exists$	1	1	T					7	1	1	1	十	7	7	7	$\top$	1	$\top$	$\dagger$	П		T	1	N R	\$ 4		_	4
ΙΞ		SCA	66	OCT NOV						디																	=					1,	7	LIO	1-8-5	0.20	0.20	
ļ		<u> </u>		<del></del>	1					1.20		1	Ļ	L			4		_		$\perp$	1	_				1.20				Ц	٦	200		<u> </u>	1 1	1	-
PRODUCTION		18	DUE AS OF	1 801	00.00	0.00	0.00	0.00	0.00	0.31	1.08	0	0.00 0.00	0.00	0.00	0.10		0.00	9.0	0.0	0.0			0.00	0:0	0.00	0.31	1.18				1 10 20 11	4	ROI	TSDS	0.08	0.08	11
PR P	YTY TY	a a	PR IOR TO		40	0.33	0.77	0.47	0.49	8	0.0	0	8	0.05	00.0	00.0		0.11		0.22	0.18	T		0.93	-64			0.0	T		П	1	4 - 11		T	+	H	┥┃
	rIV]	Ž		1		0	9	9	힉	릐		- ا	10	9	0		$\dashv$	위	힉	위	4	+	+	9	4	흭			+		Н	╬	₫	NAME				
1	AC.		PROGRAM QTY	FY	y y		Ш			$\Box$	1.08					0.10												1.18		$\perp$	Ц			Z	<u>,  </u> ,			
	ET		¥ Z	FY	χ										00.		-									ı	1.31					THICK	z	JRE				
Ì	UDC		OGR.	FY	7				0.49					0.05							T	T				0.54					П	MON	CLIO	CTI	CA	NAN	SELECTED	
	N/B		PR		36F	33	0.77	0.47	의	_	+	2		0	-	Н	$\dashv$	듸	90.0	0.22	0.18	$\dagger$	+	6	-64	9	+	$\dagger$	+		H	TOTAL MONTHLY	RODU	MANUFACTURER	٤	OLIN ORDNANCE I	SE	
	TIO	<b> </b>		H	مام	0	٥	ė	$\dashv$		+	-10	1	1	  -	ſ,	$\dashv$		- I	$\neg$		+	-+	익	ㅁ	ار	ال	ار	+	$\vdash$	H	۲	ā	MAN		ZIE CIN	TO BE	
7	APPROPRIATION/BUDGET ACTIVITY DESCRIBEMENT AMMINITION ARMY/ACTIVITY	S	ы×		4			MA	MA	A	MA	5		SOF		M SOF		M M	Σ Σ	Σ Σ	Σ	$\perp$		ALI.	ALL	ALL	ALL	ALL	1	_	$\sqcup$			-	+	티리	F	-
	PROF		D∑.		Σ	Ξ	Σ			М		7	7							i		1	$\top$		1		1		T	T		7		FAC	ا. باو	- ~	3	$\ \cdot\ $
	API	1_	FAC NO.			7	1	7	٣	~				٣	<u>L</u>	Υ.		_	7		~													<u>–</u>				

											DATE			
	BUDGET ITEM J	H	TEM	JUS	TOSTIFICATION SHEET	AT	NOI	SHE	ET		FEI	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	/BUDGET ACTI	VITY					P-1 ITEN	M NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, A	RMY/AC	CTIVITY 1		AMMUNITION		CTG 25MM TPDS-T M910	TPDS-	F M910					(E08204)
	FY	96	FY	97	ΥΥ	86	FY	66	FY	00	FY	0.1	01 02 FY	ξ0 λ.
QUANTITY	2272	7.2	2325		1453		1810		1047		ነይፍራ		1	1875/1874
(Thousands)		1	1		1		7101		101	,	0		4	
COST (In Millions)	<b>የ</b> ን	45.5	\$ 40.0		\$ 25.7		\$ 32.8		\$ 34.0		\$ 35.0		\$ 36	36.2/37.0

The 25mm Armor Piercing (AP) training round is ballistically matched to the 25mm cartridge AP Discarding Sabot, with and qualification of the M2/M3 Bradley Fighting Vehicles in lieu of the M791 and the M919. This round supports live item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price. Tracer M791 and the AP Fin Stabilized Discarding Sabot, with Tracer M919. The M910 is used in gunnery training Bradley Fighting Vehicle training at smaller facilities that cannot use the long range combat cartridges.

## JUSTIFICATION:

builds a depot level in accordance with the Army's procurement goals. The maximum range of the current APDS-T and This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and the follow-on APFSDS-T cartridges precludes their use on most training ranges. Bradley Fighting Vehicle crews cannot obtain meaningful training without this round.

TYPE CLASSIFICATION DATE:



AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 25MM TPDS-T M910

PCN: P02QM1DQC47; DATE: FEBRUARY 1997 NSN = 1305-01-350-5365 (E08204)

	FY 96 (QTY		2272050)	FY 97 (QTY		2325093)	FY 98 (QTY		1452658)	FY 99 (QTY		1818653)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	QTY.	USOS	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.CONTAINER PA125	2272050	15.73	35731	2325093	14.56	33864	1452658 48519	14.21 31.37	20637	1818653 60744	14.50 32.02	26378
SUBTOTAL			35731			33864			22159			28323
PRODUCTION SUPPORT			. <u>-</u>									
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPORT 6. CAWCF GAIN/LOSS SURCHARG	ENGINEERING RANCE TESTING NS PORTATION STOCK SUPPORT		1108 4111 1361 15191 6532			1395 369 322 3960			2265 2555 160 784			2895 71 326 204 1002
SUBTOTAL			9756			6093			3519			4498
**************************************	*******	20.02	45487!	17.19 39957	17.19		17.68 25678	17.68	25678	***************************************	18.05	32821

P-1 ITEM NO. 10

PAGE NO. 9 of 17

			11 VES WHEIL AVA II.		
	RY 1997		SPEC L REV W	ON	ON
	DATE: FEBRUARY 1997	1-350-5	SPECS AVAIL NOW	YES	YES
	DATE	NSN = 1305-01-350-5265	UNIT COST	# 12.90 # 14.43 14.56 14.21 14.51	31.37
		TURE	QUANTITY	1579980 692070 2325093 1452658 1818653	48519 60744
	& PLANNING	P-1 ITEM NOMENCLATURE CTG 25MM TPDS-T M910	DATE OF FIRST DELIVERY	MAY 97 MAY 97 MAY 98 MAY 99 MAY 00	MAR 99 MAR 00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HISTORY	P-1 IT	AWARD DATE	APR 96 APR 96 MAR 97 MAR 98 MAR 99	MAR 98 MAR 99
	PROCUREMENT HISTORY & PLANNING	TION	CONTRACTED BY	IOC IOC IOC IOC	IOC
	! ! ! ! !	TY 1. AMMUNI	CONTRACT METHOD & TYPE	C/FP C/FP C/FP C/FP	C/FP C/FP
	APPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	LINE ITEM/ FISCAL YEAR CONTRACTOR  1. LOAD, ASSEMBLE, AND PACK (LAP)	FY 1996 ALLIANT TECH SYS, INC JOLIN ORDNANCE FY 1996 OLIN ORDNANCE FY 1997 TBS FY 1998 TBS FY 1999 TBS Z. CONTAINER PA125	FY 1998 TBS FY 1999 TBS REMARKS:

# ACTUAL CONTRACT PRICE FOR MULTIPLE PRODUCERS TBS - To Be Selected P-1 ITEM NO. 10

PAGE NO. 10 of 17

Particular   Maintaine   Particular   Part	Consistent of Process   Part of Part						5			1				[		F	4	5					ď	DATE						RECUI	REMEIN		T. M.1	SYMBO	
V   Y   Y   Y   Y   Y   Y   Y   Y   Y	Company   Manual Comp	2000	TATAG	OTTON / DITE	V did	T1111	7. PE	3		- 1		3				4	7						$\dashv$	립	BRUA		7.661			DD-Gd	NP (AF	100	۲:		
Proceeding of the process of the p	Fig. 2017   Fig.	PROC	UREME	NT AMMUNI	TION,	ARMY/	ACTIV	/ITY		AMMU	NITI	NC.					7-1 51:2	25MM		MENC S-T 1	LATT M910	RE												E082	04
No.   Principal	N   F   F   F   F   F   F   F   F   F	FAC	សធ	PROGE	RAM O'	ACC PRI	TEP. BMI		ISCA	I X	SAR	97				1	FIS(	CAL	YEAR	98					Ē.	ISCA		EAR 99						_	
Y E Y E Y E Y E Y E Y E Y E Y E Y E Y	V   F   F   F   F   F   F   F   F   F	NO.			1	1		LL ئادة	96	J	ALENDAR	YEAR		97					CALEND	AR YEAR	-	186	_		-		Ť	CALENDA	AR YEAR		99			Γ	نز ہے
MA	MA		>		FY				YON T		NAN FEI	MA.		N S		SEP	E OC		JAN	EB MAR	APR			AUG		_	DEC	JAN		APR			AUG		<u>.</u> 22
MA	MA	H			+	1	26 0.	18	1		+	I	+	1	+		$\int$	$\bot$	士	+	#	+	_		+	_		_ <u> </u>	+		+	+		10	00.
MA	M A D 6	7	1	0.21		ြ		8	Ц		Н		Н		$\vdash$					-			L		+			┝	-					0	00.
M A	M A	H		1.58		٥		20					2							H					-			_						0	00.
M A	M A	2		0.69		ં	05 0	64	-		-	_					.10	)4		Н		_												0	00.
M	MA	~		2.33	_1	<u>。</u>	00 2.	33	$\dashv$		-	_	$\dashv$	4	$\dashv$							20.2		.20	,	0.20	.20		20.20			- 1		0	00.
M N	MK	3					П	45	$\int$		$\dashv$		-		$\dashv$														_			•	.20	200	.45
M NC   D.00	MKC   D.00   0	3	МА		1	$\overline{}$	H	82	$\overline{\downarrow}$	$\exists$	$\dashv$	$\downarrow$	$\dashv$	$\downarrow$	$\dashv$					$\sqcup$		$\dashv$			$\dashv$	$\dashv$					+	-		7	.82
M N C	M. K. D. 0.00   0.00				†	+	+	$\dashv$	$\downarrow$		$\dashv$		+	$\downarrow$	+	$\downarrow$		$\dashv$	_	$\dashv$	$\downarrow$	$\dashv$	_		$\dashv$	_		$\dashv$	-		+	1	1	$\dashv$	
M NC	M NC		ω W	0.00	1	9	<u>်</u>	8	1		+		+	$\downarrow$	$\dashv$	_	_	7	_	4		$\dashv$	_		$\dashv$	_		+	-		$\dashv$	-		9	00.
M   M   M   M   M   M   M   M   M   M	M NC			0.00		<u>•</u>	8	8	4		$\dashv$		$\dashv$		$\dashv$			$\neg$		_		_	_		-			$\dashv$	_			4		9	00.
M   M   M   M   M   M   M   M   M   M	M NC	3	M MC	0.10	- 1	<u>•</u>	<u>0</u>	10	$\exists$		$\dashv$		-		$\dashv$		$\dashv$			_		10	_						-			-		9	00.
M MC	Mic.   D. 08   D. 00   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 08   D. 09   D. 047	3	M MC		0.13		00 00	띰	4		$\dashv$		$\dashv$	1	$\dashv$		_	$\neg$	_	_								_			13	_		0	00.
ALL	ALL   2.43   0.00   1.58   0.00   1.58   0.00   1.59   0.00   1.59   0.00   1.59   0.00   1.59   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0.00   1.50   0	~	MC M		0			8	$\dashv$		$\dashv$		$\dashv$	$\downarrow$	$\dashv$		+	$\downarrow$	1	$\dashv$		_			$\dashv$			$\dashv$	$\dashv$		+	$\dashv$			80.
ALL D.47   0.47 0.00   0.13 2.14   0.22 32.32 32.32 32.32 32.32 32.32   0.13 2.14   0.14 2.0   0.13 2.14   0.14 2.0   0.15 2.14   0.15 2.15   0.15 2.14   0.15 2.15   0.15 2.14   0.15 2.15 2.15   0.15 2.15 2.15   0.15 2.15 2.15   0.15 2.15 2.15   0.15 2.15 2.15   0.15 2.15 2.15	ALL D. 47   0.47   0.00   2.43					+	+	+	1	$\perp$	+	1	+	1	+	1	+	-	+	+	1	+	4		+		1	$\dashv$	+		_	_		$\dagger$	
ALL 2.73   0.13   0.14   0.10   0.15   0.10   0.14   0.10   0.15   0.1	ALL P. 24  ALL P. 24  ALL P. 24  ALL P. 24  ALL P. 25  ALL P. 25  ALL P. 25  ALL P. 27  ALL P. 27  ALL P. 27  ALL P. 27  ALL P. 29		<u> </u> ;		1		15	-	$\bot$	$\perp$	+	1	+	1	+	$\downarrow$	+	Ŧ	+	$\downarrow$	1	+	1	1	+	1		+	+	1	+	$\downarrow$		+	1
ALL   2.43   0.10 2.43   0.00 2.24   0.0	ALL 2.13 (0.10 2.14) (0.10 2.1		ALL			<u></u>		<u></u>	1	$\dagger$	+	#	_		+	7	+	1	+	+	1	+	1		+	4	1	+	+	1	+	4		7	3
ALL	ALL		ALL	Z.27	1	0		14	$\prod$	$\dagger$	+	1		•	32.3	.32	788	<u></u>	$\dagger$	+	$\downarrow$			- 1		-					$\dashv$	+		0	00.
ALL	ALL		ALL	7		4	ᅄ	£	$\prod$	$\exists$	+		+	$\downarrow$	+	1	+	7	$\dagger$	+	#			2		0.70	2			• 1	+	- 1		9	00.
ALLIAN ORINANCE   L. 0.23   0.24   2.2	ALL		ALL		1		ᆜ	28	1	1	+	#	$\dashv$	_	+	1	+	7	+	4	1	+	-		$\dashv$	4		$\dashv$	+		33.2	•	•	<del>8</del> 7	.45
PROBLETED   1.0	PROCUREMENT   10 60 8.05   122,32,32,32,32,32,32,32,32,32,32,32,32,3		ALL				디	8	$\dashv$		-		$\dashv$	1	+	1	+	4	+	$\dashv$	$\downarrow$	$\dashv$			$\dashv$			$\dashv$	-		$\dashv$	_		П	.90
PRODUCTURER NAME   PRODUCTION RATES   SEGRET   PROCUREMENT   LEAD TIME   REVARKS   PROTOCOLED   1.22, 32, 32, 32, 32, 32, 32, 32, 32, 32,	PROCHECTION   PRODUCTION RATES   WARRING & LOCATION   PROCHECTED   1.22, 32, 32, 32, 32, 32, 32, 32, 32, 32,					+	+	+	4	$\exists$	+	$\downarrow$	+		+	$\downarrow$	+	1	+	4	1	+	_	$\dagger$	$\dashv$	1	1	$\dashv$	-		-	4		1	
TOTAL MONTHUM   0.60   8.05    1.22,32,32,32,32,32,32,32,32,32,32,32,32,3	PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME   PRODUCTION RATES   NAME				1	+	-	+	$\perp$	$\frac{1}{2}$	+	$\downarrow$	+	1	+	1	+	1	+	+	#	+			$\dashv$	4		$\dashv$	+		$\dashv$	-		+	
FORMULACIURER NAME   PRODUCTION RATES   WASHING NAME   FORMULANT TECH   IL   0.26   0.26   0.24   0.75   12   12   12   12   12   12   12   1	PRODUCTION RAILES   NAME   PRODUCTION RAILES   NAME   NA		1	+	$^{\dagger}$	+	+	+	1	$\pm$	+	1	+	#	+	1	+	1	$\dagger$	+	$^{\dagger}$	+	1	$\dagger$	+	1		+	+		+	+		$\dashv$	
FECTION   PRODUCTION   RATES   WANTER   NAME   FINITION   LEAD	PRODUCTION   PRODUCTION   PROPERTIES   PRO		1	1	$\downarrow$	+	+	+	Ţ	1	+	#	+	#	+	$\downarrow$	+	$\downarrow$	+	+	1	+		$\dagger$	+			+	-	$\downarrow$	+	-	1	+	
FOUR CTURE NAME   PRODUCTION RATES   REVIEW NAME   FOUR CALLES   STATES	PRODUCTION RATES   WANTER NAME   PRODUCTION RATES   WASHER NAME   PRODUCTION RATES   WANTER NAME   PRODUCTION RATES   WASHER NAME   PRODUCTION RATES   WASHER NAME   PRODUCTION RATES   WANTER NAME   PRODUCTION RATES   WASHER NAME   PRODUCTION RATES   WANTER NAME   PRODUCTION RATES   WANTER NAME   PRODUCTION RATES   WANTER NAME   WANTER NAME   WASHER NAME   WASHER NAME   WANTER		1		‡	+	+	+	1	$\pm$	+	1	+	1	+	1	+	1	+	+	$\downarrow$	+	$oxed{\Gamma}$		+		T	╁	-		+	$\downarrow$		+	
FROBLETTOR   AMULTACTURER NAME   PRODUCTION RATES   WAYNER PRODUCTIO	FROMUTACTURER NAME   PRODUCTION RATES   WANTER BEACH NAME   PRODUCTION RATES   WANTER BEACH NAME   PRODUCTION   PRODUCTI				$\perp$	-	+	+	-	$\perp$	-	1	+		+		+	L	+	L	_	+		-	-			+	1		+	+		+	
TOTAL MONTHLY   0.60   8.05   1.22  32  32  32  32  32  32  32  32  32	TOTAL MONTHLY   0.60   8.05   1.22,32,32,32,32,32,32,32,32,32,32,32,32,3					$\  \cdot \ $	H	H	П		H		$\left  \cdot \right $		H		H		H			H		H	H			H			$\vdash$			+	
PRODUCTION RATES   PRODUCTION RATES   PRODUCTION RATES   PRODUCTION   APPEN   PROCUREMENT LEAD TIME   PROCUREMENT LEAD TIME   PROTOCOLUMBENT   PROCUREMENT	PRODUCTION RATES   PRODUCTION RATES   PRODUCTION   APPEN   PROCUREMENT   LEAD TIME   LEAD TIME   PROCUREMENT   LEAD TIME   PROCUREMENT   LEAD TIME   LEAD TIME   PROCUREMENT   LEAD TIME   PROCUREMENT   LEAD TIME   LEAD TIME   PROCUREMENT   LEAD TIME   PROCUREMENT   LEAD TIME   LEAD TIME   PROCUREMENT   LEAD TIME   PROCUREMENT   LEAD TIME   LEAD TIME   PROCUREMENT   LEAD TIME   LEAD TIME   LEAD TIME   PROCUREMENT   LEAD TIME   LEAD						$\dashv$	+	1	$\perp$	$\dashv$	$\downarrow$	+	$\downarrow$	-	$\downarrow$	+	1	+	_	$\pm$	+		$\top$	+			$\dashv$			H			H	
MANUFACTURER NAME   PRODUCTION   RATES   REWINS TO   STATES   REWINDER   TO   STATES   REWINDER   TO   STATES	MANUFACTURER NAME   PRODUCTION   ADMIN LEAD TIME   REMARKS   REM			TOTAL MON	NEWNO	0	60 8.	-   29	$\prod$	$\prod$	$\dashv$	廿	22.32	32		32.	28.0	4	+	$\prod$	力	30.2	0.20	.20	20.2	0.20	.20	20.2	0.20	.13	33.2	0.20	.20	705	.35
MANUFACTURER NAME   MINIMUM   MINI	MANUFACTURER NAME   FIRE   PROPERTIES   PR		-						TIT TIT	) V O	n n	SHLWON	[2			<u> </u>	TIDEM	TING!	1 57 1		N. C.		REM	ARKS											
ALLIANT TECH   IL   0.26   0.26   0.75   12   1	ALLIANT TECH   IL   0.26   0.26   0.33   0.34   12	FAC NO.		MANUFACT & LOCA	TURER	NAME	NIN		1-8-5	WAX	TMUM	REACH P	DAY				N CEAL	TIME	010	· [	TOTAL STATE														
OLIN ORDNANCE         IL         0.33         0.34         12         INITIAL         4         6         14         20           TO BE SELECTED         0.20         0.24         0.75         12         REORDER         4         4         4         14         18         QUANTITY	OLIN ORDNANCE         IL         0.33         0.34         12         INITIAL         4         6         14         20           TO BE SELECTED         0.20         0.24         0.75         12         REORDER         4         4         14         18         QUANTITY           P-1 LINE NO.         10         PAGES         11         OP 17         PAGES         PAGES	1	A	LIANT TEC	Ħ	11.	10	.26	0.2	9	7.75	12				28	ξ	¥50		¥.	TER 1														
TO BE SELECTED 0.20 0.24 0.75 12 REORDER 4 4 14 18 QUANTITY	TO BE SELECTED 0.20 0.24 0.75 12 REORDER 4 4 14 18 QUANTITY P-1 LINE NO. 10 PAGE NO. 11 OF 17 PAGES	2	G.	IN ORDNAN	ĬĊ.	ដ	H	.33	0.3		7.94	12		INI	ТДТТ.			9	14		20														
VIIIIII V	10 PAGE NO. 11 OF 17 PAGES	m	입	BE SELEC			1	1.20	0.5					REC	RDEF		-	4	14	+-	1,00								Č	1	Ė				
	10 PAGE NO. 11 OF 17	_	-				1	1		$\downarrow$			7			-	1			$\frac{1}{1}$	1								ď	ONNI	<u>~</u>	Z		SNO	_

, 2007	2 m K T adv	maponiamion i ama		PR	PRODUCTION	CTI	NO	SCF	SCHEDUL	JLE	E)	(EXHIBIT	3IT	P-2	21)					DATE	FEBI	FEBRUARY		1997		R.E.	COMP	MENTS (AR)	REMITEMENTS COUTRN, SYMB DD-COMP (AR) 1093	(A)	13 1.	
PROC	UREMENT	PROCUREMENT AMMUNITION,	* _ქ	ACTIVITY ARMY/ACTIVITY	TIVI	1	7 1. AMMUNIT	AMMUNITION	NO					P-1 CTG	ITEM NOMENCLATURE 25MM TPDS-T M910	NOM	ENCL -T MS	ATUR	ш							+-				l d	F08204	T
FAC	សធរ	PROGRAM	AM QTY	ACCEP.		FISC	AL Y		00					FISC	FISCAL YEAR	EAR	5					FIS	FISCAL	X	EAR	-				î	7	T
0	×>		-		AS OF 1 OCT	66		CALENDAR YEAR	R YEAR		8				۲	CALENDAR YEAR	YEAR		01					2 150	CALENDAR YEAR	YEAR	0				<=- <sup>1</sup>	
	+	FY FY F	FY FY	000	5	OCT NOV DEC		JAN FEB MAR	e A	APR MAY	308	JUL AUG	SEP	OCT NOV	DEC	JAN FEB	A.	APR MAY	308	JUL AUG	das 5	Å	NOV DI	DEC JAN	JAN FEB MAR		AFR MAY	y Jun	Jul	AUG SEP	<u></u> ≃	—
-	A M		22	4	2 0	+	1	+	1	+	1	+	#	+	1	$\dashv$		H		H	$ \cdot $		Н	H			H			H		T
7	A	0.21		2 2 2		+	1	+	Ţ	+	1	+	1	+	1	+	1	+	1	$\dashv$	$\downarrow$	1	+	$\dashv$	1		-	$\dashv$		$\dashv$	0.00	
	Ą	58				+	1	+	1	+	1	+	1	+	#	+	$\downarrow$	+	1	$\dashv$	4		$\dashv$	4			+	4		+	0.00	$\Box$
2		69		0.69 0.00	0	+	T	+	1	+	1	+	1	+	1	+	#	+	1	+	$\downarrow$		$\dagger$	+		$\top$	+	1		+	0.0	$\subseteq$ I
3		2.33		2.33	00	+	L	+	1	+	1	+	1	+	1	+	1	+	1	+	1		+	-		1	-			+	0.00	$\Box$
3	MA		.45	1.00		20.20	0.03	<u> </u>		$\vdash$	L	+		+	$\bot$	+	$^{\dagger}$	+		+	1	1	+	+	1	$\dagger$	+	-	$\dagger$	-	00.00	_1.
3	MA		1.82	0.00	1.82	$\vdash$		H	L	.20	20	.20.20	2	20.20	S	20 02	Ţ	+	İ	+	_	İ	+	$\downarrow$	1	$\dagger$	+		+	+	0 0	_1_
						H		H		H				$\vdash$				╀		+	$\perp$		+	+		$\dagger$	+		$\dagger$		00.0	
	Т	00		0.00 0.00	ॖऻ	$\dashv$	1	+		$\dashv$		-		Ч		L		$\vdash$		H	_		-	L			-	L		-	0	1-
,	П	00.00		0.00	8	+	$\downarrow$	$\dashv$		$\dashv$				$\sqcup$		$\vdash$		$\vdash$		-			┝	ļ.		-	╀		-	$\vdash$		J-
~	M MC	0.10		0.10	8	+		$\dashv$		-		_				_		$\vdash$		H			├	-		-	╀		$\vdash$	-		
~	M MC	i		0.13	0.00	-				H		L				$\vdash$		$\vdash$		-			╁	╀		+	+		1	+		.1
~	M MC		0.08	0.0	0.08	$\dashv$		$\dashv$		. 08		_				_		$\vdash$		$\vdash$			╁	-		+	-		t	+		. 1
		+			1	+	1	$\dashv$	$\downarrow$	+		$\dashv$		$oxed{\parallel}$				H		Н				L		-	-		+	-		1
	;		T	1	1	+	1	+	1	+	1	+		$\dashv$	1	$\dashv$		$\dashv$					H						$\vdash$			1
		1,00	T	2 27 0 00		+	1	+	1	+	1	+	1	+	$\pm$	$\bot$	1	+	1	$\dashv$			-	_							0.00	
	4-	7,7	1	7 7 7	3 6	+	1	+	#	+	1	+	1	+	$\pm$	$\bot$		$\dashv$		$\dashv$			$\dashv$	$\dashv$							0.00	_
	אַני	_L_	8	1 12 0 45	_	18	15	+	$\downarrow$	+	1	+	$\perp$	$\mp$	$\perp$	$\downarrow$	1	$\dashv$		$\dashv$		1	$\dashv$	4							0.00	_
	ייי:	1	[	719	춁	20.02.02	50.5	+	1	+	1	+	1	$\downarrow$	1			$\dashv$		$\dashv$							_		-	_	00.0	_
	ALL	+	T 30	00.0	2	+	1	+	#	2,7	훠	20.20	2	20.20	20.20.2	.20.02		-	$\exists$	$\dashv$							_		-	_	00.0	1
		+	1		$\dagger$	+	1	+	1	+	1	+	$\perp$	1	+	Ŧ	$\frac{1}{2}$	+		$\dashv$	1	$\dashv$	-						Н			т
		+	1		$\dagger$	+	1	+	1	+	$\dagger$	1	$\pm$	Ŧ	+	Ţ	+	+		+		+	$\dashv$			$\dashv$	4		H			, ,
		<u> </u>			T	+	$\bot$	+	‡	$\perp$	$\dagger$	$oxed{\Box}$	$\pm$	Ŧ	+	1	+	-	+	+		+	+	$\downarrow$		+	4		$\dashv$			-,
					T	+		$\vdash$		-	$\pm$	$\perp$	$\perp$	Ŧ	+	T	+	$\perp$	t	+	Ţ	$\dagger$	+	1		+	4		$\dashv$			
					T	-		-		L		$oxed{\Gamma}$	$\dagger$	F	+	I	+	$oxed{\perp}$		╀		+	+	1		+	-		+	1		
					T	-	L	$\vdash$	L	F	$\vdash$		$\dagger$	F	-	I	$\dagger$	otan	$\dagger$	+		+	+	$\downarrow$		+	$\downarrow$		+			
								-		F	L		$\vdash$		-	L	+	igspace	$\dagger$	$\downarrow$		$\dagger$	+		$\perp$	+	$\perp$		-	_		
					П	Н		dash			Н						+	F	$\dagger$	$\perp$		╁	+-		$\perp$	+	1	$\perp$	+			
	_							Ц			H		H		Н	П	H		$\vdash$	$\vdash$		+	+-		$\dagger$	+			+	1		
	PR	PRODUCTION		6.30 2	2.35.20	20.20	20,05	$\dashv$	$\exists$	.28	28.20.2	20.20	20.20.2	. 20. 20. 20	20.20	0.02	H	П	Н	Н			-		+	╁	$oxed{\Box}$	İ	+		C	_,_
																			قــا	30				11		$\  \cdot \ $			$\left\  \cdot \right\ $		00.	
FAC		MANUFACTURER 1 OCATION	KER NAME		PRODUCTION RATES NOWINS TO MINIMUM INV.	CTIO	N RA	TES	KENCH M	2 %			ROCL	PROCUREMENT	LN	LEAD	TIME		<u> </u>	KEMAKKS	מ											
	AI.	ALLIANT TECH	i i		0.26	0.26	9 RAY	0.75	12				PRIOR 1 OCT	AFTE 1 OC		PROD.	AFTER 1	raL R 1 oc⊤														
7	OLIN	OLIN ORDNANCE		-	0.33	1		1.94	12	 T	1		4	9		14	L	20														
3	TO BE	TO BE SELECTED		-	0.20	ΙI		0.75	12		INT	INITIAL		$\downarrow$	+		_	;	_													
_	L			-			ŀ			<u> </u>	REOF	REORDER	-	_	_			:	_												_	_

QUANTITY IN MILLIONS

PAGE NO. 12 OF 17 PAGES

P-1 LINE NO. 10

18

INITIAL

						DATE		
	BUD	BUDGET ITEM JUST	TIFICATION SHEET	EET			February 1997	
APPROPRIATION / BUDGET ACTIVITY	TIVITY			P-1 ITEM NOMENCLATURE				
-	PROCUREMENT OF AMMUNITION /Ammunition	INITION /Ammunition				CTG 25MM APFSDS-T M919 (E08210)	S-T M919 (E08210)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	255	325	0	0	0	0	0
COST (in millions)	0.0	32.8	42.0	0.0	0.0	0.0	0.0	0.0
DESCRIPTION:								

incorporating high energy propellants, low drag design, and improved penetrator material. This item is Code A, approved for service use. This item The 25mm Armor Piercing Fin Stabilized Discarding Sabot - Tracer (APFSDS-T) M919. The M919 uses the state-of-the-art technology by

has not transitioned to the SMCA and will be procured at actual cost.

## JUSTIFICATION:

Bradley Fighting Vehicle System, thus increasing its effectiveness against light threat weapon systems and enhancing its survivability. The current The M919 will replace the M791 as the primary armor piercing cartridge for use in the 25mm, M242 Automatic Gun which is mounted on the M2/M3 M791 does not defeat the current threat.

Type Classification Date: TC Limited Production Urgent, September 1989.

TC Standard September 1993.

Limited Material Release: September 1996

-													
WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation Budget Activity Title/No. Procurement Ammunition	Appropriation Budget ctivity Title/No. Procurement Ammunition,	, ARMY/Activity 1		B. WEAPON CTG 25MM API	B. WEAPON CTG 25MM APFSDS-T M919 (E08210)		C. MANUFACTURER NAME PLANT CITY/STATE LOCY PRIMEX-MARION, IL	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION PRIMEX-MARION, IL		D. DATE February 1997	1997
		Ammunition		- 1	,	ļ						ŀ	
	14004	FY96	(OTY: 0	7	FY97	(QTY: 255	5	FY 98	(QTY: 325	5 )	FY99	(QTY: 0	
weapon System Cost Elements	Code	Unit	Qty	Total	Unit	Qty ×1000	Total	Unit	Qty x1000	Total	Uni t Cost	Qty	Total Cost
HARDWARE 1. COMPLETE ROUND	K				122	255	31,060	125	325	40,502			
SUBTOTAL HARDWARE COST				0			31,060			40,502			
PRODUCTION SUPPORT  1. ENGINEERING SUPPORT  2. QUALITY ASSURANCE  3. PROOF & ACCEPTANCE  4. INTERIM TRANSPORTATION							1060 120 129			1108 125 135 130		<u> </u>	
SUBTOTAL SUPPORT COST				0			1,433			1,498			0
NON-RECURLING COST  1. PURSUIT OF 25MM REFERENCE LOT							300						
SUBTOTAL NON-RECURRING COST				0			300						
TOTAL P-1 LINE ITEM				0			32,793			42,000			
PROGRAM UNIT COST							128.60			129,24	·		
				P-1	100	HOPPING LIST Item No. 10 Page 14 of 17		UNCLASSIFIED	IFIED	Exhibit P-	Exhibit P-5 Weapon System Cost Analysis	em Cost Analys	<u>.s.</u>

BUDGET PRO	BUDGET PROCUREMENT HISTORY AND	PLANNIN	RY AND PLANNING EXHIBIT (P-5A)			ļ		DATE	February 1997	97
B. APPROPRIATION / BUDGET ACTIVITY					C P-1 ITEM N	C P-1 ITEM NOMENCLATURE	RE		o. Cippio	
PROCUREM	PROCUREMENT OF AMMUNITION / 1 / Ammunition			-		CTG 25N	CTG 25MM APFSDS-T M919 (E08210)	19 (E08210	=	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST	QTY Fach	UNIT COST	SPECS AVAIL NOW	SPEC IF REV BEO'D	IF YES WIA
1. COMPLETE ROUND FY 95 FY 98	Olin-Marion, IL PRIMEX-MARION, IL		ARDEC ARDEC	Aug-96 Jul-97 May-98	Sep-97 May-98 May-99	160317 255000 324977	130.99 121.80 124.63	√ ES	O O	
REMARKS:									<b>-</b>   ·	

THE STANDARD TO SEE AND THE SE			1	! :		<u></u>	- - -	P-1 ITEM NOMENCLATURE	NCLAT										ì	DATE	ш							
TI 130 DODG 66 1 06 1 1	計		200		40070		١	l	ĺ	٥	CTG 25MM APFSDS-T M919 (E08210)	MM AP	FSDS-	T M91	9 (E08	(2 (3 (3)			١	4			Feb	February 1997	1997	Į	Ì	İ
	-			-	, CE	ָר פאר				ISC	Fiscal Year 9.	3.			į					Ξ	Fiscal Year 98	Year	86					ب
	չ և	2			_	one.	ŀ	ŀ		ŀ		ਲੈ	Calendar Year 97	Ğ.	ır 97						Ü	alen	dar	Calendar Year	98			∢
COST EI FMENTS	L 02	÷	ш ск :	9	1 OCT	AS OF 1 OCT	0 U	2 O	¬ ∢	шш	Σ ∢ A d	Σ∢	r n	7 0	∢ ⊃	ωш	00	N O	~ ×	чш	Σ∢	∢ ۵	Σ∢	'n	'n	Ą	SП	н ш
	4	6	+				+	+	z	+	4	-	z	ı	υ	_			_	-	ď	۳	>	z	_	ပ	۵	~
I. COMPLETE ROUND	-	32 & Pr	٨	490	105	385	$\dashv$	SS	8	2	20 20	20	20	52	52	20	20 2	20 20	20	20	20	20						0
	-	FY 97	+	255	0	255		_						٧				_		_			8	20	20	20	20	155
	_	FY 98	∢	325	0	325	-	_											_	_			∢					325
	$\dashv$						$\dashv$										_	L	_									0
	-						-										H	_										0
							-	_																				0
	+																	_		_								0
	+						$\dashv$												_	_								٥
																		_		_								o
	$\dashv$						$\dashv$													L								0
And the second s																		_		_	L							0
	$\dashv$																			_								0
	-						$\dashv$											<u> </u>		_								0
	$\dashv$														П		$\vdash$	Н									厂	0
	+						-				4																	٥
	$\dashv$						$\dashv$	$\dashv$	Ì	$\dashv$	_				$\dashv$	+	-	_										0
	+	1				1	$\dashv$	4		+	+	_				7	-	$\dashv$										0
	+						$\dashv$	$\downarrow$		$\dashv$	_				1	ᅱ	$\dashv$	4	_	_								٥
				1	1	1	+	$\bot$		$\dashv$	_	_			7	$\dashv$	-	$\dashv$										0
	+	1					+	$\blacksquare$		$\dashv$	4	$\downarrow$			7	+	$\dashv$	$\dashv$	_								_	0
	+						+	_	$\exists$	$\dashv$	4	$\perp$			7	+	$\dashv$	_										0
	+			+	1		+		1	$\dashv$	4	$\downarrow$				+	4	$\dashv$	4									0
	+		+				+	_	-	-	-	+		$\top$	-		-+	$\dashv$	4									0
IOIAL	-		1	1070	105	<u>ş</u>		_	-	+	-	_	8	52		-	-		2	ន	20	20	20	20	20	20	20	480
							20> 00⊢	ошо	¬ ∢ z	т Ш 80 Z A S.	< 0 &	<b>∑</b> ∢≻	0 C A	ر د د د د	<b>∀</b> ⊃ ຫ	о m σ	Z 0 >	пшυ	¬ ∢ z	тша	∑∢œ	A P	Σ∢>	702	٦٥.	< ⊃ (	νшι	
W	dash	PRC	PRODUCTION RATES	RATES			MFR	L	1		Ц	AD	MIN LE	ΑĐΤII	¥	h	MFR	١	╄	TOTAL		: 2	REMARKS	, S)	7	5		
		_			MAX	- ACHED	Number			ł	٦	Prior 1 Oct.	ŭ	Affe	After 1 Oct	+	After 1	oct.		After 1 Oct	ct.							
	4	Z Z	C-8-1	1	<u> </u>	Ţ	-	Z	֓֞֝֟֝֟֝֟֝֝֟֝֝֟֝֓֓֓֓֟֝֟֝֟֝ ֓֓֓֞֓֞֞֓֓֓֓֞֞֞֞֓֓֓֓֓֓֞֓֓֓֓֓֓֓֓֓֞֩֞	+	4	,			ا ۽	┥	۲			20								
1 PRIMEX-MARION, IL	+	5 ;	27	+	8 8	1	,	REORDER	OER.	+	4	ი (	1		8	┨	12		Ц	50								
	+	-	8	+	2	Τ	٧	RECRUER	1 E	╁	+	"	1	1	٥	+	۲			20								
	+			╁	$\dagger$	$\dagger$		INITIV	۰	╁	Ļ	,	T		2	+	1		1	23	7							
	+							REORDER	DER	Н			T			+			$\downarrow$									
	Н							INITIAL	, .	Н		Н	П						L	l	Τ							
	+	†			+	1	l	REOR	DER	╁	1		1	ı		+			Ц									
	+	+		+	$\frac{1}{1}$	T			يا د	+	1		T		1	+	1		Ц									
	┨	1		1		1				┨	4	ı	1	ı	ı	┨	ı	1	╛									

nedule

Exhibit P-21 Production

COORTILETE ROUND   1   FV 98   98   100   1   FV 98   100   1			_	∢	⊢ши	٥	٥	0	0	0	o	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0													
BBUDGET PRODUCTION SCHEDULE  M FINE S		ľ			αшс																									υш	a										
BUNGET PRODUCTION SCHEDULE    K					A U G																									∢ ⊃	ပ										
March   Marc		266		00	L U																									7 0	7										
March   Marc		Jary 1		ear	7 D Z	Г																								70	z į	9									
## FY 97 A 255 100 155 20 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	l	Febr	00	ar Y	<b>≥</b> ∢≻	T	T																							<b>∑</b> ∢:	- X										
## FY 97 A 255 100 155 20 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	1		ear	end	4 0	T		28											_										28	4 d t	_ [i										
99 BUDGET PRODUCTION SCHEDULE    F		- 1	al Y	Ca	Σ∢α	Г		27								_													_	<b>≥</b> ∢0	۷ ا	نہ	Γ	Τ	Т			T	Τ	T	Т
## FY SHUDGET PRODUCTION SCHEDULE    FY SH   F	DATE	- 1	Fisc		т ш в	ı	Τ	27																Н						тшо	-   <del> </del>	9	20	20	20	20			İ	l	
99 BUDGET PRODUCTION SCHEDULE   Fig.	Γ				¬ ∢ z	T		27														$\neg$							-	¬ < 2		Affe	ĺ	l							
99 BUDGET PRODUCTION SCHEDULE    F		-			ОШО	T		27																			T		72	ОШО	,	ند	T	T	H		H	7	$\dagger$	t	Н
99 BUDGET PRODUCTION SCHEDULE    Mathematical Period	l				z o >	Г		27			<u> </u>																			z o >	- Jay	100	10	12	2	10		l		l	
99 BUDGET PRODUCTION SCHEDULE    Fig.	l				001	T	T	27					$\vdash$	П														$\dashv$			7	After						ı		1	
99 BUDGET PRODUCTION SCHEDULE    M		210)	Т		νшσ	T	T	22	Г					П								$\dashv$				$\dashv$	寸	7	-	οшο	†		۳	Н	H	٦	$\dashv$	†	t	f	H
99 BUDGET PRODUCTION SCHEDULE    M		(E08		r 99	∢ ⊃ ບ			22											T			$\exists$			$\neg$		$\dashv$		-	ע ⊃ ני	,   	100	10	8	10	5		ı			
99 BUDGET PRODUCTION SCHEDULE    M		M919		Yea	704	T	Γ	27		Г				П			П		$\dashv$		7	7			$\dashv$	$\dashv$	$\dashv$	+	-	¬ ⊃ -		Afte									
99 BUDGET PRODUCTION SCHEDULE    M		SDS-1		ndar	7 D Z	T		27																					77	¬ ⊃ z	NIE	1,1	_	П	H	7	7	T	t	H	
99 BUDGET PRODUCTION SCHEDULE    M		APF	66	Sale	Σ∢≻	Γ		22																	7			7	22	<b>Σ</b> ∢ ≻	ADM	100	3	9	9	က		ı			
99 BUDGET PRODUCTION SCHEDULE    M		25MIV	/ear		4 L R	Γ	×							П													7	寸	25	< 0 G	1	Prio				١		ı			1
99 BUDGET PRODUCTION SCHEDULE    M		CTG	cal		∑ < ℃		52																						22	Σ∢α	T			П	Ħ	┪	1	十	T	H	٦
99 BUDGET PRODUCTION SCHEDULE    F	TURE	ı	Fis		ıт m ю		25												ヿ		T								22	шш	1				П	1	1	Ť	T	Н	1
99 BUDGET PRODUCTION SCHEDULE    F	NCLA				¬ ∢ Z		20																						20	¬ ∢ z			Ļ	DER	ایدا	DER	ا اپ	Ä _	DER	اد	띪
99 BUDGET PRODUCTION SCHEDULE    F	NOME	ı			о С	L	8																						20	ΔШС			INITI	REOF	INITI	REOF	I		REOF	N T N	REG
99 BUDGET PRODUCTION SCHEDULE    F	TEM	ı			z o >		8																						20	z o >	FR	,				T		Т		Γ	7
## FY E X1000 TO TO TO TO TO TO TO TO TO TO TO TO TO	P-1	4					20								Ц														8	0 U F	Σ										
## FY E X1000 TO TO TO TO TO TO TO TO TO TO TO TO TO			BAL	DOE.	AS OF OCT	0	155	325									1				Ì								98			ACHED	+ 0								
## FY E X1000    M		ŀ	<u></u>			0	0	Н	Н				H					+	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	-	$\dashv$	$\dashv$	1	+	$\dashv$		F	Т		Н	$\dashv$	$\dashv$	+	+	+	Н	$\dashv$
COST ELEMENTS  COST ELEMENTS  COMPLETE ROUND  1 FY 97 A 255  1 FY 98 A 325  1 FY 98 A 325  1 FY 98 A 325  1 FY 98 A 325  1 TY 97 A 255  1 TY 97 A 255  1 TY 98 A 325  1 TY 98 A 325  1 TY 98 A 325  1 TY 98 A 325  1 TY 98 A 325  1 TY 1 TY 1 TY 1 TY 1 TY 1 TY 1 TY 1 T	١.		ACCI	PRE	- 2 Q	49(	10	٥																					590				MAX	40	9						
COST ELEMENTS  COMPLETE ROUND  COMPLETE ROUND  COMPLETE ROUND  1 FY 98 A B B B B B B B B B B B B B B B B B B			SOC.	Σ	1000	490	255	325																					070		SATES										
COST ELEMENTS  COMPLETE ROUND  1 FY 98 A  1 FY 98 A  1 FY 98 A  1 FY 98 A  1 FY 98 A  1 TY 98 BUDGET PRODUCTION SC  COMPLETE ROUND  1 FY 98 A  1 TY 98 A  1 TY 98 A  1 TY 98 A  1 TY 98 A  1 FY 98 A  1 TY 98 A					^	Н			-	_					4		_	_	-			_	_	_	$\dashv$	$\dashv$	$\dashv$	4	$\dashv$		TION		1-8-5	27	25		ŀ	-			
COMPLETE ROUND  COST ELEMENTS  COMPLETE ROUND  1 FY 98 A PT  1 FY 98 PT  1 FY 97  1 FY 98 PT  1 FY 98				S	ш с >:	Ą	A	٧																					_		RODUC	L								Ц	Ц
COMPLETE ROUND  COMPLETE ROUND	ODUCTION SCHEDULE			i	<u>Ł</u>	& Pr	۲ 97	86																							ľ		Į.	15	5						
COST ELEMENTS COMPLETE ROUND  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		욂				Н															_	_				_	_				L		2	L	Ц			$\downarrow$	1		Ц
COST ELEMENTS COMPLETE ROUND  NAME / LOCATION PRIMEX-MARION, IL. Jin-Marion, IL. Jin-Marion, IL. Jin-Marion, IL.		읽	•	Σ !	т к	2	-	-	_	_	4			4	4		_	_	_	_	4	_	_	$\dashv$	_	4	_	_	_												
		FY 98 / 99 BUDGET P			COST ELEMENTS	COMPLETE ROUND														e principal de la companya de la companya de la companya de la companya de la companya de la companya de la co									)TAL					PRIMEX-MARION, IL	Olin-Marion, IL						

,											DATE				
	3UDGE	H	ITEM	JUS	BUDGET ITEM JUSTIFICATION SHEET	AT	LON	SHE	E		H H	FEBRUARY 1997	. 1997		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	IVITY					P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, A	ARMY / 1	ACTIVITY 1	. AMMUN	NOILI		CTG 30MM ALL TYPES	LALL T	PES					(ER8120)	(20)
	FY	96	FY	97	FY	86	FY	66	FŸ	00	FY	0.1	01 02 FY	Ϋ́	03
QUANTITY	1	-0-	-0-		-0-		-0-		-0-		-0-		·	-0-/-0-	
COST (In Millions)	v۶	4.2	\$ 10.0		\$ 10.4	Or.	\$ 7.3		\$ 7.5		\$ 7.8		٠.	8.0/8.2	2

This budget line includes 30MM ALL TYPES.

P-1 SHODPING LIST ITEM | PAGE NO. 1 of 12



	A	AMMUNIT	TTTC	ION CC	)ST.	ANAL	COST ANALYSIS		(DOLLARS IN THOUSANDS)	THOUSA	NDS)	
APPROPRIATION BUDGET ACTIVITY:	r ACTIV	1	AMMINITION		M. ALL TY	PES (ER812)	6	1	DATE	FEBRUARY 1997	76	
PROCONEMENT AMOUNTING				FY	97	79 F	FY	86		FŸ	66	
SSN/ITEM:	OTY	UNIT	TOTAL	OTY	UNIT	TOTAL	OTY	UNIT	TOTAL	QTY	UNIT	TOTAL
(E09900) CTG 30MM HEDP M789	0	00.0	0	259	38.55	9991	0	0.00	0	0	0.00	0
(E10100) CTG 30MM TP M788	313	13.34	4169	0	00.0	0	961	10.78	10357	661	11.01	7273
	·						·					
								· · · · · · · · · · · · · · · · · · ·				
TOTAL P-1 LINE ITEM			4169			9991			10357			7273
DD FORM 2448, AUG 89				P-1 ITEM NO.	NO. 11	P.	PAGE NO. 2	OF 12		EXHIBIT	P-5	

											DATE				Г
•	BUDGET ITEM JU	H	EM	JUS	STIFICATION	CAT		SHEET	H		Ţ	FFRIIARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	/BUDGET ACTIV	ITY					P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, AR.	MY/ACTI	VITY 1.	AMMUN	ITION		CTG 30MM	( LKD HI	CTG 30MM LKD HEDP M789 W/FUZE	1/FUZE				(E09900)	<u></u>
	FY	96	FY	97	FY	98	ĿΫ	66	FΥ	00	FY	01	01 02 FY		03
QUANTITY	~0-	,	259		-0-		-0-		-0-		-0-		0 -	-0-/-0-	
(Thousands)									•		•				
COST (In Millions)	-0-	₩.	10.0		-0-		-0- \$		-0- \$		-0- \$		vs	-0-/-0-	

The M789 lightweight 30MM high explosive-dual purpose (HEDP) cartridge is comprised of a steel projectile body loaded with HMX explosive and spin-compensated shaped charged liner, an M759 point detonating fuze, and an aluminum cartridge case. It is designed for use in the M230 automatic cannon. This item is Code A, approved for service use, and will be procured through the CAWCF at a fixed standard price.

## JUSTIFICATION:

This is a "war reserve" item used for combat; planned procurements will be used to build the "war reserve" stockpile. TYPE CLASSIFICATION DATE:

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG 30MM HEDP M789

FCH: PO2QM1DCC45

DATE: FEBRUARY 1997

NSN = 1305-01-268 9373

	FY 96	(QTY		(H)	YTQ) 76 Y		259179) F	FY 98 (QTY		) FY	FY 99 (QT'Y		
ELEMENT OF COST QM: EACH	YTQ	٨	UNIT	TOTAL	YTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	УТQ	UNIT	TOTAL,
HARDWARE													
Ϋ́ς					259179	26.48	6863						
CLASS 3 (LB)					17262	72.78	1256			•			
•					156	72.78	11:			··			
CLASS					78	4.24							
SUBTOTAL				<u> </u>			8130			     			
PRODUCTION SUPPORT													
1.PRODUCTION ENGI	ENGINEER ING						372!			· -· -·			
.ACCEPTANCE .INTERIM TR .INDUSTRIAL	ANSPORTATION STOCK SUPPORT			<b></b>			32278						
GAIN	SURCHARGE						990						
SUBTOTAL							1861						
NONRECURRING							   						
1.*GOVERNMENT FUR	FURNISHED MATERIAL	ERIAL		· <b>-</b> · -									
SUBTOTAL				<u>                                     </u>			<u> </u>						
**************************************	iW:	****	***	* * * * * * * * * * * * * * * * * * * *	****	38.55	9991	***************************************	* * * * * * * * *	***	****	***	* * * * *
				_!			_!						

P-1 ITEM NO. 11

PAGE NO. 4 of 12

		PROCUREMENT	HISTORY	ROCUREMENT HISTORY & PLANNING		DATE:		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT)	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305-01-268-9373	11-268-9	373	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNI	FION	CTG 301	CTG 30MM HEDP M789	6	; 1 1 2 2 1 1 1 1 2		(E09900)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	TF YES WHEN AVATE
1. LOAD, ASSEMBLE, AND PACK (LAP)		1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1		1 1 1 1		
FY 1991 ALLIANT TECH SYS, INC	: C/FP	IOC	MAY 94	AUG 95	494340	37.32			
FY 1997 TBS	C/FP	IOC	MAR 97	MAR 98	259179	26.48	YES	ON O	
2. PBXN 5 TYPE II, CLASS 3 (LB)									
FY 1991 HOLSTON DEFENSE CORP	SS/CPFF	TOC	JAN 92	DEC 92	33764	15.59			
FY 1997 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	FEB 97	FEB 98	17262	72.78	YES	ON	
3. PBXN-5 TYPE I, CLASS 3 (LB)									
FY 1991 HOLSTON DEFENSE CORP	SS/CPFF	IOC	JAN 92	DEC 92	89	17.57			
FY 1997 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	FEB 97	FEB 98	156	72.78	YES	ON	
REMARKS:					 		1 1 1 1	1	- F - F - F - F - F - F - F - F - F - F

TBS - To Be Selected

P-1 ITEM NO. 11 PAGE NO. 5 of 12

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT	HISTORY	PROCUREMENT HISTORY & PLANNING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE	DATE: FEBRUARY 1997	RY 1997	
APPROPRIATION/I	APPROPRIATION/BUDGET ACTIVITY			P-1 I	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305 - 01 - 268 - 9373	01-268-9	373	
PROCUREMENT AMA	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	VITY 1. AMMUI	NITION	CTG 3(	CTG 30MM HEDP M789	6	 	 	(E0d9000)	00)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	TF YES WHEN AVATE
4. *RDX TYPE I	4. *RDX TYPE II, CLASS 7 (LB)	! ! ! ! ! ! !	] 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		:	
FY 1991 S FY 1997 S	FY 1991 STOCK ISSUE FY 1997 STOCK ISSUE	N/A N/A	N/A N/A	N/A N/A	N/A N/A	89	N/A N/A	N/A	N/N	
REMARKS:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		) 1 1 1 1 1 1 1	i i i i i i i i i i i i i i i i i i i	: : :	

P-1 ITEM NO. 11

PAGE NO. 6 of 12

sof, symbol,	E09900	<====	Aug sep 1,	0.00	00.00	0.00	0.00	0.00												OMOT 1	JLI OFFIS
RECUTREMETES CONTROL OWNED. DESCOND (AR) 1092		ır 99	APR MAY JUIL																	OUANTITY IN MILLIONS	1713 NT 1171102
RY 1997	FISCAL YEAR	99 CALEHDAR YEAR	I NOV DEC JAN FEB MAR																		
DATE FEBRUARY	T	86	JUN JUL AUG SEP OCT														REMARKS				2_PAGES
NOMENCLATURE	CTG 30MM HEDP M789 FISCAL YEAR	98 CALENDAR YEAR	JAN FEB MAR APR MAY JUN		.26			.26								.26	LEAD TIME	PROD. AFTER 1 OCT	12 18	10 16	NO. 7 OF 12
	CTG 30MM FISCAL Y		SEP OCT NOV DEC															PRIOR AFTER 1 OCT 1	9 9	9 9	O. 11 PAGE NO.
ULE (EXHIBIT			APR MAY JUN JUL AUG																INITIAL	REORDER	P-1 LINE NO.
ION SCHEDULE	fiscal YEAR	CALE	IOV DEC JAN FEB MAR														PRODUCTION RATES MONTHS TO	24.00 72.00 0			
NODO	MY/ACTIVITY 1	AS OF 1 OCT	96 96	0.00 0.00	0.00 0.26	0.00 0.00	0.00 0.00	0.00								0.00 0.26		Ī			
PEAPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY  S DEDOCTORAN OUT 19-708 NO.	FROGRAM VII	FY FY FY FY 96P 97 98 99	00.00	0.26	00.00	0.00	00								TOTAL MONTHLY PRODUCTION	MANUFACTURER NAME				
APPROPRIATI	PROCUREMENT EAC 11 E	NO.	$\top$	W W	C A	1	1	Арр									FAC MA	<u>   </u>			

	SHEET
ļ	JUSTIFICATION
	ITEM
	BUDGET

DATE

	בונים ביונים	- - -	DODGET TEE CORTECTION SHEET			1621			+		FEE	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	UDGET AC	TIVITY					P-1 ITE	EM NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	UNITION,	ARMY / P	ACTIVITY 1	. AMMUN	NOITI		CTG 30M	CTG 30MM TP M788	38				٦	(E10100)
	FY	96	FY	97	FY	98	FY	66	FY	00	FY	0.1	01 02 FY	03
QUANTITY		313	-0-		6	961	661		670		674		681	681/681
(Thousands)														
COST (In Millions)	₩	4.2	-0- \$		\$ 10.4	.4	\$ 7.3		\$ 7.5		\$ 7.8	i	\$ 8.0	8.0/8.2

#### DESCRIPTION:

The 30mm Linked Target Practice (TP) M788 cartridge is an electric primed aluminum cased cartridge which is used in The system is used as the secondary armament system on the Apache Advanced Attack Helicopter (AH-64). This item is Code A, approved for service use. This item will be procured through the the 30mm M230 chain gun weapon system. CAWCF at a fixed standard price.

## JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

# TYPE CLASSIFICATION DATE:

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS) APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 30MM TP M788

DATE: FERRUARY 1997 NSN = 1305-01-268-7274 (E10100) PCN:P02QM1D0C:43

												(
	FY 96 (QTY		312520) FY	16	(QTY	^	) FY 98 (QTY		960525)	FY 99 (QTY		66067.3)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.COMPLETE ROUND	312520	10.48	3274				960525	9.31	8938	660672	9.50	6276
SUBTOTAL			3274						8638			6276
1. PRODUCTION SUPPORT 1  1. PRODUCTION ENGINEER ING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPOI 6. CAWCF GAIN/LOSS SURCHA	PUKT :  BNGINEERING JRANCE TESTING TSORTATION STOCK SUPPORT		10 10 14 12 14 12 13 13 13 13 13 13 13 13 13 13 13 13 13						913 103 103 317			641 16 72 223
SUBTOTAL  ***********************************	***********	*******	895	*******	****	****	1419	7 7 7	1419			166
TOTAL P-1 LINE ITEM		13.34	4169					10.78	10357!	- * * * * * * * * * * * * * * * * * * *	11.01	7273

PAGE NO. 9 of 12 P-1 ITEM NO. 11

	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	 	DATE	DATE: FEBRUARY 1997 	RY 1997	:
APPROPRIATION/BUDGET ACTIVITY	2			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1305 - 01 - 268 - 7274	01-268-72	274	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ACTIVITY	1. AMMUNIT	NOI	CTG 30	CTG 30MM TP M788				(E10100)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR		CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAII,
1. COMPLETE ROUND			! ! ! ! ! ! ! !	] 1 ! ! !	! ! ! ! ! !		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: : : : : : : : : : : : : : : : : : : :	
FY 1996 ALLIANT TECH SY	S, INC	C/FP	IOC	36 NUC	MAY 97	312520	10.48			
FY 1998 TBS FY 1999 TBS		C/FP C/FP	10C 10C	MAR 98 MAR 99	MAR 99 MAR 00	960525 660672	9.31	YES	NO	
REMARKS:	; ; ; ! !				; ; ; ; ; ; ;			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	; ; ; ;

TBS - To Be Selected

P-1 ITEM NO. 11 PAGE NO. 10 of 12

E10100	1.	; E-F	188 138 138	00.00	0.00	00.00	0.00	00.00		2	00.00	0.00	00.00	0.66									0.66				
E1010		ear 99	A P.R				1	25.25.25.21					25.25.25.21									$\Box$	25.25.25.21				
TENOMINI TO	FISCAL YEAR	CALENDAR YEAR	SEP OCT NOV DEC JAN FER I																								
		86	JUL AUG																					REMARKS	AFTER 1 OCT	18	
-1 ITEM NOMENCLATURE	FISCAL YEAR	CALENDAR YEAR	NOV DEC JAN FEB MAR																					PROCUREMENT LEAD TIME	PROD.	6 12	1,2
d.	H.	97	MAY JUN JUL AUG SEP OCT			31					31												7	PROCU	PRIOR 1 OCT	INITIAL 6	REORDER
MMUNITION	FISCAL YEAR 97	CALENDAR YEAR	DEC JAN FEB MAR APR M		. 12, 12, 12					10 10 10	77:77												1.126.126.121	RATES MONTHS TO	MAXIMUM AFTER D-DAT		0.30
TIVIT	ACCEP. BAL FISCAI		OCT NOV	55	0.61 0.36	0.00 0.31	0.00 0.00	0.00 0.96		36 0 36	0.00 0.31	0.00 00.00	0.00 0.96	0.00 0.66									.26 [2.29]	PRODUCTION	SUST. 1-8-5		0.05 0.12
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/AC	1 5	i X	FY FY FY FY 60 06 06	2/ 70 23				0.99 0		1 60	0.31	0.00	96.0	0.66									PRODUCTION 11.	MANUFACTURER NAME	& LOCATION	包	ALLIANT
PROPRIA ROCUREME	Ω Ω Ω	NO.	>	MA	Σ		Σ	2 M A	Ħ	7.7.4	ALL	ALL	ALL	ALL	+				-					FAC	5	7 2	

APPROPR PROCUR 3 M M M 3 M M M	PRODUCE ACTIVITY  PROCUREMENT AMMUNITION, ARMY/ACTIVITY  PROCUREMENT AMMUNITION, ARMY/ACTIVITY  PROCUREMENT AMMUNITION, ARMY/ACTIVITY  NO. M R	PRODUCTION VITY  Y/ACTIVITY 1. AMP  PROB		SCHEDULE  NITION  EAR  00  3.25.25.16  2.25.25.16  2.25.25.16	HX3		THEM 30MM CAL VIII	TP M788  (EAR  O1  OLENDAR TERR MAY  JAN FEB MAR APR MAY	TURE 01 01 01 01 01 01 01 01 01 01 01 01 01	элг мод	FEBRUARY 199  FISCAL	I B B B B B B B B B B B B B B B B B B B	PEGULBEREITHS  OD  AFR MAY JULY  OF COMP (AR) 1004.		E10100  11  12  14  17  17  18  18  19  10  10  10  10  10  10  10  10  10
FAC NO. 1	MANUFACTURER NAME & LOCATION OLIN MARION IL TO BE SELECTED ALLIANT	PRODUCTION RATES   MINIMOM   1-8-5   MAXIMUM   0.08   0.24   0.72   0.08   0.04   0.05   0.	FION RATES 1-8-5 MAXIMUM 0.24 0.72 0.24 0.72 0.12 0.30	HOWITIS TO REACH MAX AFTER D-DAY 0 0 0 0	INITIAL	PROCURI ADMIN LE PRICE 1 OCT 6	PROCUREMENT LEAD TIME   PRIOR   PRIO	ROD. AFTER 1 18 18 16 16	TAL OCT 18	REMARKS		ŋō	QUANTITY	IN MILLLIONS	ONS
					P-1 LINE NO.	NO. 11	PAGE NO.	12	OF_12	-PAGES					

											DATE			
<b>A</b>	BUDGET ITEM JUSTIFICATION SHEET	H	TEM	SOC	TIFIC	AT	NOI	SHE	단		F	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	SUDGET ACTIV	VITY					P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	UNITION, AF	RMY/AC	TIVITY 1	AMMUN	ILTION		CTG 40MM ALL TYPES	A ALL T	PES				(E)	(ER8001)
	FY	96	FY	97	FY	86	ЬŸ	66	FY	00	FY	01	02 FY	03
QUANTITY	)-	-0-	-0-		-0-		-0-		-0-		-0-		- 0 - / - 0 -	- 0 -
COST (In Millions) \$		\$ 6.8	\$ 33.0		\$ 26.2		\$ 36.8		\$ 37.0		\$ 41.8		\$ 39.7,	39.7/40.4

This budget line includes 40MM ALL TYPES.

P-1 SHOPPING LIST ITEM 12 PAGE NO. 1 of 29

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)	ACTIVITY:  ARMY/ACTIVITY 1. AMMINITION CTG. 40MM. ALL TYPES (FR8001)  FEBRUARY 1997	FY 97 TIES (2000)	UNIT OTAL OTY COST TOTAL OTY COST TOTAL QTY COST TOTAL	13496 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00	0.00 0 0.00 0 0.00 0 57 10.53 599	17.29     33540     2125     14.54     30889     1331     16.11     21436     2000     16.45     32881	5.81         1837         980         2.12         2080         2005         2.38         4767         1386         2.43         3365		36845
LYS]	001)	FY	O						1
ANA]	PES (ER8)		TOTAL	TOTA					32369
			UNIT	0.00	0.00	14.54	2.12		
		2	OTY	0	0	2125	086	•	
TLIC	MOTOTIVIA		TOTAL	13496	0	33540	1837		48873
<b>MMUN</b>	'Y: Утту 1. АМ	96	UNIT	18.08	0.00	17.29	5.81	•	
A	ACTIVIT	FY	УЩО	746	0	1940	316		
	APPROPRIATION BUDGET ACTIVITY:		SSN/ITEM:	(E11800) CTG 40MM HEDP M430 F/MK19 MG	(E12502) CTG 40MM PRACTICE M385A1	(E71100) CTG 40MM TP M918 LINKED F/MK19 MG	(E74200) CTG 40MM PRACTICE M781		TOTAL P-1 LINE ITEM

											DATE				
	BUDC	EL	BUDGET ITEM		JUSTIFICATION SHEET	AT	ION S	HE	<b>E</b> 4		<u>г</u>	FEBRUARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	N/BUDGET	ACTIVIT	λ.				P-1 ITEM NOMENCLATURE	NOMEN	ICLATURE						1
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	AMMUNITIO	N, ARMY	/ACTIVITY	- 1	AMMUNITION		CTG 40MM	HEDP N	CTG 40MM HEDP M430 F/MK19 MG	9 MG				(E11800	0
	FY	у 96	FY	97	FY	98	FY	66	FY	00	FŸ	01	01 02 FY		0
QUANTITY		746	-0-		-0-		į.				Ċ		0	-0-/-0-	
(Thousands)					•		>				<u> </u>				
COST (In Millions)	\$	13.5	·0-	1	-0- \$		-0- \$		\$ · 0 ·		-0- \$		\$	-0-/-0-	

ି

03

#### DESCRIPTION:

initiating base detonating fuze with spitback and is crimped to the cartridge case. This item is Code A, approved for capable of penetrating two inches of steel armor plate at zero angle of obliquity and inflicting personnel casualties The M430 is a fixed round of ammunition consisting of an internally embossed one-piece projectile body that contains in the target area. This round replaces the M383 and M384 cartridges, which were strictly anti-personnel in nature. MK19 MOD 3 grenade machine gun mounted on the high-mobility multi-purpose vehicle (HMMV) and other vehicles. It is an explosive charge of composition A-5 with a copper cone-shaped charge liner, a rotation band, and a M549 point The M430 cartridge is a high-explosive dual-purpose (HEDP) impact type round. This cartridge is fired from the This item will be procured through the CAWCF at a fixed standard price. service use.

### JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:



AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

PCN:P020M1DOC4Z

APPROPRIATION BUDGET ACT PROCUREMENT AMMUNITION,	r ACTIVITY ION, ARMY/ACTIVITY	TIVITY 1.	1. AMMUNITION		P-1 CTG	ITEM NOME	NOMENCLATURE: HEDP M430 F/MK19 MG	DW 61		DATE: NSN = 1	FEBRUARY 1997 1310-01-419-8203 (E11800)	7 1997 19-8203 300)
	FY 96 (QTY	7	46295) FY	75 (QTY		) F	FY 98 (QTY	,	) FY	7TQ) 66		
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ΔĪĀ	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BODY, ASSY, MPTS	746295 776147	3.83	2857 945								,	
4.COMP A-5, CLASS	771968 70899	0.66	510									
5.*LEAD AZIDE (SP) (LB) 6.CTG CASE M169	224 776147	23.52	674						<b></b>			
. FRUE MZ SP (LB) .COMP CH-6 .FZ PIBD M54	11941 598 776147 783610	24.14 30.20 5.19 0.36	288: 4027: 285:						<b>-</b>			
	791073	14.04 0.22	172			<del></del>						
η <	16718	3.49	28:			<b>-</b>						
4	16718	0.58	10									
SUBTOTAL			10829			<u>                                     </u>						
PRODUCTION SUPPORT						<u> </u>			<u> </u> 			
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING	ERING		336! 15! 125!			<u>-</u> .						
4.INTERIM TRANSPORT 5.INDUSTRIAL STOCK 6.CAWCF GAIN/LOSS ;	ATION SUPPORT URCHARGE		41! 460! 1980!									
SUBTOTAL			2957									
				P-1 ITEM NO.	NO. 12	PAG	PAGE NO. 4 of	£ 29				

~	
1092	
0	
-	
1	
AR	
⋖	
_	
ρ	
중	
Ö	
ŭ	
ī	
Ω	
8	
••	
Ø	
ũ	
RCS	

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS) APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

PCN:P02QM1DOC4Z

		75767 7 200	0.101	IT CURTED	(DODDAND IN: IHOUSANDS)	NDS)				
APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	AMMUNITION		P-1 I	TEM NOMENC	ITEM NOMENCLATURE: 40MM HEDP M430 F/MK19 MG	9 MG		DATE: NSN = 1	DATE: FEBRUARY 1997 NSN = 1310-01-419-8203 (E11800)	7 1997 19-8203 300)
FY 96 (QTY 740	746295) FY 97	97 (QTY		) FY	) FY 98 (QTY		) F	) FY 99 (QTY		
ELEMENT OF COST QM: EACH COST QTY COST	TOTAL	QTY C	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
NONRECURRING										
1.*GOVERNMENT FURNISHED MATERIAL	-290									
SUBTOTAL	-290	***************************************		<u> </u> .						
**************************************	13496!	********	***	* - *	****	* * * *	* * - * - * * * * * * * * * * * * * * *	**************************************	***	***

5 of 29 PAGE NO. 12 P-1 ITEM NO.

	1 1 2 3 5 6 6 6 7	PROCUREMENT HISTORY & PLANNING	, HISTORY	& PLANNING		DATE	DATE: FEBRUARY	Y 1997	: !
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-0	1310-01-419-8203	.03	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNI	TION	CTG 40	40MM HEDP M430	0 F/MK19 MG	 	 	(E11800)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1996 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	96 TAC	MAR 98	746295		; ; ; ; ; ;	; ; ; ; ;	: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2. BODY ASSY MPTS 	C/FP	IOC	96 NAC	SEP 96	776147	1.22			
3. LINER FLUTED EXT	C/FP	100	96 TAL	APR 97	771968	99.0			
4. COMP A-5, CLASS 1 (LB)	SS/CPFF	IOC	MAY 96	SEP 96	70899	13.81			
5. *LEAD AZIDE (SP) (LB) FY 1996 STOCK ISSUE	N/A	N/A	N/A	N/A	224	N/A			
REMARKS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	† 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 1 1

CTG 40MM HEDP M430A1 F/MK19 MG. ----WITH NEW IMPROVED FUZE M549A1

P-1 ITEM NO. 12 PAGE NO. 6 of 29

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	: FEBRUARY	3Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-(	1310-01-419-8203	203	: : : : :
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	TY 1. AMMUNITION	TION	CTG 40	CTG 40MM HEDP M430 F/MK19	10 F/MK19 MG	1 1 1 1 1 1 1	; ; ; ; ; ;	(E11800)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	LF YES WHEN AVAIL
6. CTG CASE M169 FY 1996 AMRON CORP WAUKESHA, WI	SS/FP	IOC	SEP 96	96 AON	776147	0.87			:
7. PROP M2 SP .019 (LB) FY 1996 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	MAY 96	96 LOO	11941	24.14			
8. COMP CH-6 (LB) FY 1996 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	MAY 96	SEP 96	298	30.20			
9. FZ PIBD M549A1 ** FY 1996 DAYRON CORP ORLANDO, FL	C/FP	IOC	JUL 96	FEB 97	776147	5.19			
10. *DET STAB M55 	N/A	N/A	N/A	N/A	783610	N/A			
REMARKS:							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	:

<sup>\*\*</sup> PACING COMPONENT

P-1 ITEM NO. 12 PAGE NO. 7 of 29

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	XY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	IURE	NSN = 1310 - 01 - 419 - 8203	11-419-82	:03	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNIT	NOI	CTG 40	CTG 40MM HEDP M430 F/MK19 MG	D F/MK19 MG		1	(E11800)	(0)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
11. RDX TYPE II, CLASS 3 (LB) FY 1996 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	MAY 96	SEP 96	75	14.04	1 1 1 1 1 4 4	1 1 1 1 1 1	
12. LINK M16A2 FY 1996 TBS	C/FP	IOC	FEB 97	AUG 97	791073	0.22			
13. LAP TEST VEH F/M430 FY 1996 MARTIN MARIETTA MILAN, TN	SS/CPAF	100	AUG 96	- 96 TOO	16718	3.49			
14. LAP SPITBACK ASSY	SS/CPAF	IOC	AUG 96	96 LOO	16718	0.58			
REMARKS:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ;	; ; ; ; ; ;				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

TBS - To Be Selected

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E11800	17.5	66	APR		00.0	0.00	0.00	00.00	00.00	0.00	0.00	0.00	P1 - 0	00.0	0.00	,	00.00	0.00		0.00	0.00			0.00	0.00	60.	0.40	0.14		 Z	6 7 7	JANTITY	1 [		þ
PRODUCTION SCHEDULE (EXHIBIT P-21) ACTIVITY	I ARMY/ACTIVITY 1. AMMUNITION CTG 40MM HEDP M430 F/MK19	MAL FISCAL YEAR  WE 97 98	10cT 1 0cT 96 CALENDAR YEAR 97 CALENDAR YEAR 98	OCT NOV DEC JAN FEB MAR APR MAY JUM JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR	0.00	0.00 0.75	0.00 0.00 0.00	0.00 0.00 0.00		0.00 0.03	0.00	0.00 0.	0.14 0.00		00.00 0.00	0.00 00.00	0.00 0.00 0.00	0.00.00.00		0.00 0.49		0.00			70.300	.01		PRODUCTION   0.00 2.35   0.03.32.32.16   0.43.33   0.12.28   0.04	REMARKS	REMENT LEAD TIME PACING COMPONENT LEADTING	TN 0.00 0.32 0.84 0 1 CT 1 CT PROD. AFTER 1 CT INITIAL 6 10	FL 0.10 0.20 0.40 0 TNTTTAL 6 3 19 22 REORDER 6 10	0.10 0.20 0.40 0 REORDER 6 3 16 19	P-1 LINE NO. 12 PAGE NO. 9 OF 29 PAGES		
APPROPRIATION/BUDGET	PROCUREMENT AMMUNITION,	FAC U E P	<u>.</u> α ⊳ Σ	F.Y	П	Σ.	W A	M A		NS	NS 0.00	Z Z Z	1 M NS			Σ.	1 M SOF	Σ		ΨÇ	M MC 0.00	MC	м мс	ALL 1.32	ALL 0.75		ALL	TOTA	}	FAC MANUF NO. & I	M	2 DAYRON ORLANDO,	3 TO BE SELECTED		•	

SYMBOL,	E11800	7] <		Ser T	0.14		-	00.00	00.00	0.00	0.15			-									0.14				- Crac	CMO.
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092			66	APR MAY JUN JUL AUG																			60.		TOTAL	19	OHANTITY IN MILLIAMO	
RE		- R	CALENDAR YEAR	JAN FEB MAR 7																+		+	.04.			o o	A DO	*
1997		FISCAL YEAR	CALE	DEC			<del> </del>	1		60.		1		-						1				ENT	Æ	10		
FEBRUARY		FISC		SEP OCT NOV			+	+	+			+	ļ	-		+	-			+				PACING COMPONENT	⊃	യാ		
DATE	) MG		_	JUL AUG																			.21.28	PEACENS		REORDER		PAGES
	NOMENCLATURE HEDP M430 F/MK19		vear 98	FEB MAR APR MAY JUN				+															43,33	TIME	TOTAL		19	10 of 29
	P-1 ITEM NOMENCLA CTG 40MM HEDP M430	L YEAR	CALENDAR YEAR	DEC JAN FEB					0.5											1				LEAD	E		16	PAGE NO.
T P-21	P-1 I	FISCA		SEP OCT NOV																			9	OCUREMEN	PRIOR AFTER	9	6 3	12
(EXHIBIT			97	JUN JUL AUG				7,	•1														.03.32.32.16	PRC	(E)E	- A THE TIME	REORDER	P-1 LINE NO.
SCHEDULE	NOI	97	CALENDAR YEAR	JAN FEB MAR APR MAY				16 16 16 16	7							+								REACH MAX	AFTER D-DAY	0	0 0	
	7 1. AMMUNITION	SCAL YEAR	96 CALENI	2		MS49A1														+				PRODUCTION RATES MONTHS TO	B-5 MAXIMUM	11	0.20 0.40	
PRODUCTION	TIVIT	and ame	AS OF	96	00 0.14	r: FZ PIBD M549A	000	0 00 0 00 0	0.00 0.05	0.00 0.09	0.00 0.15												0.00 2.35	PRODUCT	SUST	0.10	0.10	
	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY	ACCEP.	1	FY 99	0.14	PACING COMPONENT:	-	1 0	0.0		0.15 0.0					1								ER NAME	NO :	IN IN		
	ON/BUDGE	PROGRAM OTY		FY FY FY 98	1 1	PACING	6	00.2	0.05	0.00	+		-		+	+			+	+			TOTAL MONTHLY PRODUCTION	MANUFACTURER	& LOCATION	MILAN AAF MILAN, DAYRON ORLANDO,	TO BE SELECTED	
	OPRIATI UREMENT	សធ		$\top$	ALL		┵	T LOL	4-	TOT M	TOT					#								-	+	DAYR	TO BI	
	APPR( PRO(	FAC	NO.				,	7 0	3 6	٣	3													FAC	ġ,	7 7	m	

Ġ.	F11800		ع<	- [x	æ		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	00.0	00.0		0.00	00					T		0.00	0.00	000	0.00		0		00 0	0.00			 _					
REQUIREMENTS CONTROL SYMBOL DD COMP (AR) 1092	1.5	1			SEP									۷	0		0					100		+	$\dagger$	+	2 '	9	0 0	2	+	-	9	C	0		H						SNO
NTROL 92			ŀ	-	Y <sub>C</sub>	4	1	4	$\downarrow$		$\rfloor$						L										I																QUANTITY IN MILLIONS
S COI				-	N JUL	+	+	$\dashv$	+	4	_				_		L	_				$oxed{igspace}$	1	L	$\downarrow$	$\downarrow$	1	1	$\perp$	$\perp$										ΆĽ			×
EMENT P (AR				2	MAY JUN	+	+	$\dashv$	+	+	-		-	_	$\dashv$		L	_	-	_	$\vdash$	-	+	$\vdash$	$\perp$	+	+	$\downarrow$	$\downarrow$	_	$\perp$	_		_	Ц					TOTAL	19	16	I A.
COM				62	APR M	+	+	$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	-	$\dashv$	$\dashv$	_		_	-	_	┝	├	+	-	+	+	+	$\perp$	+	$\perp$	$\vdash$	L	-				4						Ţ
I B E	╁	-		YEAR	HAR	+	$\dagger$	7	7	+	1	7		+	+	_	-			-	╁	-	+	$\vdash$	+	+	+	+	+	╁	╀	-	$\vdash$		-	$\dashv$	$\dashv$			PDN	א עכ	٥	QUAI
		2		TOAR.	FEB	1	1					$\dashv$	7		1	-					<u> </u>	$\vdash$	$\vdash$		$\dagger$	$\dagger$	$\dagger$	+	+	+	$\vdash$	-	Н	_		$\dashv$	$\dashv$			114			
_		YEA	6	_	N.Y.			$\rfloor$																	T	T	1	$\dagger$	+	T	T		Н			1	$\dashv$			ALT	7 5	7	
1997		FISCAL YEAR	-		DEC	4	4	4	4	$\downarrow$	$\downarrow$	4	4		$\downarrow$							L																Ę		AC;			
ARY		ISC		ŀ	NOV L	+	+	4	$\dashv$	+	-	$\dashv$	+	4	+	-		_					L	_	L	1	$\perp$	$\perp$	Ļ						_[			PEMARKS COMPONER	E S	UALI			
FEBRUARY		-	ᅱ		δ das	+	+	$\dashv$	+	+	$\dashv$	+	+	$\dashv$	$\dashv$	4	$\dashv$	_	-			L	-	-	┝	╀	+	╀	+	-	H			_	4	4	4	Š	3 5	7	שע	5	
EF.					AUG	$\dagger$	$\dagger$	+	+	+	+	+	+	$\dashv$	+	$\dashv$	-	-			Н			L	┝	├	╀	+	╀	╀	Н		$\dashv$	$\dashv$	+	+	-	85	5	17.7	127	Ė	
DATE	ğ		-		JE.	1	†	1	1	†	7	$\top$	1	1	1	7	7	$\dashv$	7		Н			-	H	┢	+	+	+	$\vdash$	H	_	$\dashv$	+	+	+	-	EMA F	יאר.	TNITAL	RECREER	3	
	E 313			ᇊ[	NO.	I	I															_			T	T	T	T	T				7	+	$\dagger$	Ť	┧╏	<u>~</u>	- -			_	_
	P-1 ITEM NOMENCLATURE CTG 40MM HEDP M430 F/MK19 MG			-	Š	1	4	4	$\downarrow$	1	1	1	4	$\downarrow$	1	4																				1	7			L OCT		,	
	CLA 130				R APR	+	+	+	+	+	4	+	-	4	4	4	4	4	4	_	_	_			L	L	L	L	L	Ц				$\prod$	$\prod$			M	2	AFTER 1	22	;   	19
	MENG		01	A L	JAN FEB MAR	+	+	+	╬	+	+	+	+	+	+	+	+	$\dashv$	+	-	$\dashv$	-		_	_	_	L	┞	-	Н		4	4	4	4	$\perp$	4	LEAD TIME	╬	¥		$\dashv$	
		EAR		- ALEN	2	$\dagger$	$\dagger$	$\dagger$	$\dagger$	+	$\dagger$	+	+	$\dagger$	+	+	+	$\dashv$	+	$\dashv$	┪	-		-	<u> </u>		L	$\vdash$	-	H	-	4	+	+	+	4	4	FAD		PROD.	19		16
1	ITEM 40MM	Y 7			DEC	İ	I			T	T	1	†	$\dagger$	†	†	1	1	†	7	7					H	$\vdash$	-		H	$\dashv$	$\dashv$	+	+	+	+	$\dashv$	E				_	_
P-21	cre 4	/2S]			ğ	$\perp$	$\perp$	$\downarrow$			floor		I		I	I															7	7	1	†	†	T	1	ME		AFTE SCIEN	٣		m
1 1	P-1 CTC	ᅜ	-		-	$\downarrow$	╀	+	4	$\downarrow$	+	-	$\downarrow$	$\downarrow$	1	1	4	1	4	4	4											I		I			]	CURI	N TE	PRIOR AFTER 1 OCT 1 OCT	9	1	9
(EXHIBIT				2		╁	╁	╁	+	+	+	╬	+	+	+	+	+	+	+	+	$\dashv$	$\dashv$	$\dashv$	4	_		_	_	Ц	$\Box$	4	4	4	4	$\downarrow$	1	4	PRO		E.			
			1	1		$\dagger$	t	$\dagger$	$\dagger$	$\dagger$	$\dagger$	+	$\dagger$	╁	$\dagger$	+	+	+	+	+	+	-	$\dashv$	$\dashv$	$\dashv$			H	Н	-	$\dashv$	+	+	+	+	+	4					INITIAL	REORDER
鱼			5				T	T	1	T	T	$\dagger$	†	†	t	$\dagger$	+	+	†	1	†	+	$\dashv$	1	$\dashv$			-	Н	$\dashv$	$\dashv$	+	╁	+	╁	+	1						
回				À					I		I	I		I	I	I				1			$\exists$	1	$\exists$	_				7	$\dagger$	+	+	$\dagger$	$\dagger$	$\dagger$	1	_	<u></u>			_	
ULE	l			1 4		L	L	$\perp$	╀	$\perp$	1	1	$\downarrow$	1	$\perp$	;	14	1	1				$oxed{\int}$											Ī		7	7	23	AFTER D-DAY				
SCHEDI	S	S	CALENDAR YEAR	FEB MAR	+-	H	┞	╀	+	╀	+	$\downarrow$	╀	$\downarrow$	+	+	$\downarrow$	4	1	4	4	4	$\downarrow$	4	$\dashv$	_	_			4	1			$\perp$		L	]	HONTH	AFTER	0	0	0	
SCI	INIT	EAK	ALENDA	JAN	╁	H	┞	+	+	╁	╀	╁	╀	╀	╁	+	+	+	+	+	+	+	+	$\dashv$	-	$\dashv$		_	$\dashv$	4	4	4	4	4	+	1	-	ES	2		0.40	0.40	
1 1	/ 1. AMMUNITION	⊐	۲	N N			H	t	t	t	$\dagger$	╁	t	t	$\dagger$	$\dagger$	╁	$\dagger$	$\dagger$	$\dagger$	+	+	+	$\dashv$	$\dashv$	$\dashv$	┪		$\dashv$	$\dashv$	+	+	╁	+	+	╀	-	RATES	MAXTMIM	i	0	0	
빏	-18	SCA	96	8								I		Ī	T	T	T	T	1	†	†	1	$\dagger$	†	7	1	٦	٦		+	$\dagger$	†	$\dagger$	t	$\dagger$	+	1	NO.	8-5	0.32	0.20	0.20	
PRODUCTION	2:	<u> </u>	⊥_	-			L				L					I	I					1											1	T	T	T	1	PRODUCTION		0	[ ]	1	
	Ĭ	3 8	10 St	1 0 1	99	0.00	0.00	6	0	0 0		0.03 0.00	0 00 0 00	00 00 00	00000	0000			2 0	00.00	0.05 0.00	0.09 0.00	0.00		1	0.0	0.00 0.00	0.00	0.00 0.00		3	0.0	00.0	0	3	14		RODI	NIMO	0.00	0.10	0.10	
H	NG T	ACCEP.	٤	1 961	6	08.0	0.75	00.0	0.00	0.00		5	8	3	2	3	3	5		3	3 6	3	0.00	1	0.49	0.0	8	0.00	힣	+	1	1.32	20.0		3	2.21 0.14		H	Σö	_	Н	Н	
17.00	· 함	,		1	99	0	0	10	10			٦	c	٩	۽	_		١	1	4	4	_		+	힉	힉	힉	흭	힁	+	+	4	=   =	1	╪	2	į	Σ Ή	1	_			
, ,	Z Z	É	ž	FY	66			L		0.0			L	L	L	<u>-</u> ع	:	L	$\perp$		1		8	1			$\perp$		8								i	Ž	5	E	FL		
1 1		26	5	FY	8				00.0		L	L			00						łc	3		ı		١		9			1	T	T	2	5	THE	-	RER	IOI	LAN	8	딥	
Ditio	INI	VIII MA ODOGO	3	FY	97			00.0						0					T	1	5	T	Ţ	T		1	9			1		T	S S		Τ	TOTAL MONTHLY PRODUCTION			& LOCATION	MILAN AAP MILAN,	DAYRON ORLANDO,	TO BE SELECTED	
N C		Ď	-	FY	96P	0.80	.75				Γ	0.03	00.0		T	T	T	15	2 5	3	1	†	$\dagger$	†:	67	0.00	9	+	+	十	15	1 2 2	7	╫	t	STAL		IUFA	<u>نا</u>	AA	OZ	SE	
1 1 1 1		ខាល	י אם נ	Щ.	H	٩	٩					1		Г	1	-	$\dagger$	46			<u>.</u> [	<u>.</u>	_	Т	Т	T	+	+	+	+	┿	_	Т.	-	+	Fä	:	MAN	0	IIAN	AYRO	田	
1 00			Σ			Ψ Ψ	Ψ	MA	Α	MA		SN M	NS	NS	NS W	N	1	Z C D					200	4	Σ Σ	되	S S		띩	4	;	1:	1 4	1				-	$\dashv$	Σ	릐	Ħ	+
PI	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	بِ	· ·				1								Γ		Γ	Γ	Γ	Τ	T	Ī	T	Τ	T	1	1		1	1	T	T	T	T	T	1		FAC	0		7	9	
		7.7	8		Ц				L		L_		L,	L		_	L			ľ	1	1		Ţ	1					$\perp$		L		L		L		Щ.	~	1			_

P-1 LINE NO. 12 PAGE NO. 11 OF 29 PAGES

- A

Procession of the process of the p		0		_ ,	,,~	S	3	П	1	00 5	3 6	3 6	300	$\Box$	T	$\top$	T	T			Т	Т	Τ				Т			5	3					$\neg$
PRODUCTION SCHEDULE (EXHIBIT P - 21)   10   1   1   1   1   1   1   1   1	HeI.	180		<u>-</u>		ے ا	-	$\sqcup$	4	9	ع إد	2 0	0	Ц	_		1	L		_			$\perp$					Ш		I I	-1				SI	
PRODUCTION SCHEDULE (EXHIBIT P-21)    The first production and an interval to the production of the production and an interval to the producti	S.V.	딥				$\perp$	<u> </u>	$\sqcup$	4	$\perp$	_	$\perp$	$\perp$	$\sqcup$		┸	_	ļ		_	$\perp$		$\perp$		_		1			Ш					loI	
PRODUCTION SCHEDULE (EXHIBIT P-21)    The first production and an interval to the production of the production and an interval to the producti	TROL						1_	Ц	$\perp$	$\perp$	$\perp$			Ц		$\perp$															]				11	
PRODUCTION SCHEDULE (EXHIBIT P-21)    The first production and an interval to the production of the production and an interval to the producti	CON			ļ	JHF.									1																	71	<u>.</u>	j		Σ	
PRODUCTION SCHEDULE (EXHIBIT P-21)    The first production and an interval to the production of the production and an interval to the producti	ATS				25			П			T		П		$\top$	T	Τ							П							11	TLO.	19	16	=	
PRODUCTION SCHEDULE (EXHIBIT P-21)    The first production and an interval to the production of the production and an interval to the producti	EME!			2	ž			П	$\top$	$\top$	$\top$	T	$\Box$	П	十	1	†	T		$\neg$	T	$\top$	T		十	+	$\forall$	$\dashv$	+ +		11	F	'		ITY	
PRODUCTION SCHEDULE (EXHIBIT P-21)    The first production and an interval to the production of the production and an interval to the producti	E S	Ì		٦	ă.	+	1	$\Box$	十	+	+	+	$\forall$	$\vdash$	+	+	+	+-	$\vdash$	$\dashv$	+	+	╁┈	H	+	+	H	-	+	+	-{				E.	1
PRODUCTION SCHEDULE ACCURATION PRODUCE ACCURATION SCHEDULE (EXHIBIT P = 21)    A	3. C		1	<u>چ</u>	۳ ۲	+	-	$\vdash$	+	+	+	+	+	H	+	+	+	-		$\dashv$	+	+	$\vdash$	-	+	+	H		++	+	$\ \cdot\ $	NC	6	9	MAN O	
Comparison and Comp	1			A YE	2 0	+		$\vdash$	+	+	+	+-	+	H	+	+	+-	⊬	Н	_	+	<del>-</del>	-		+	-		+	+	_	4	Д			1	
Correction of the control of the c	ĺ		AR 2	END	2	+-	+	$\vdash$	+	+	+	┼	+	$\vdash$	+	+	+	_	$\sqcup$		+	4-			_	$\bot$		_		_	11	_				
PRODUCTION SCHEDULE (EXHIBIT P-21)    PROPERTY ON PRODUCTION SCHEDULE (EXHIBIT P-21)   PROPERTY ON PROPERTY OF PRO	7		YE	3		-	╁	$\vdash \vdash$	$\downarrow$	+	+	┷	$\sqcup$	$\sqcup$	$\dashv$	4	1		Н	_	$\perp$	1	Ш	Ш	4	4	Ш	$\perp$			]	AL	ij	1		
PRODUCTION SCHEDULE (EXHIBIT P-21)    PROPERTY OF PRODUCTION SCHEDULE (EXHIBIT P-21)   PROPERTY OF PRO	199		AL		_	4	ļ	Ц	4	4	4	┺	Щ	Н	$\bot$	_	$\perp$	L	Ц	_	$\perp$	_	L	Ц	$\perp$	1					] [	7				
Particular			SC.			$\perp$	1	Ц	$\perp$	$\perp$	$\perp$	丄	Ш	Ц	$\perp$	$\perp$					$\perp$	L										5 5				
PRODUCTION SCHEDULE (EXHIBIT P-21)  CURRENT AND MAINTAIN, AND MAINTAIN, AND MAINTAIN AND WILLIAM AND W	(A)	1	H					Ш	$\perp$		⊥	$\perp$		Ш	$\perp$														П		]  §	B	9	9		1
PRODUCTION SCHEDULE (EXHIBIT P-21)  CURRENT AND AND TOTAL AND AND AND AND AND AND AND AND AND AND	開				SEP			Ш						i												T	П				ز ال	;	긔	23		ı
PRODUCTION SCHEDULE (EXHIBIT P-21)  CURRENT AND AND TOTAL AND AND AND AND AND AND AND AND AND AND	TE				AUG		Γ	IT			Т			П	T					T	Τ	1	П		$\top$	T	П			$\top$	<b>※</b>		TIL	RDE		S
PRODUCTION SCHEDULE (EXHIBIT P-21)  CURRENT AND AND TOTAL AND AND AND AND AND AND AND AND AND AND	DA	Ş		1	퀽		Τ	$\prod$	T	$\top$	T	T	$\sqcap$	$\top$	$\top$	$\top$	T			1	$\top$	1	П	$\dashv$	+	1	H	$\top$	${\dagger}$	$\top$	監	:	INI	REC		AGE
S							T	$\sqcap$	+	十	+	T	$\sqcap$	$\top$	十	T	T	П	$\dashv$	$\dagger$	$\dagger$	T	H	$\forall$	十	+-	+	+	† †	+-		_				ı
Comparison Manual Control Comparison   Com		EE E		1	ž	$\top$	+	$  \uparrow \uparrow$	+	+	+	T	$\dagger \dagger$	$\top$	+	$\dagger$	†-	H	$\dashv$	+	+	+	$\forall$	+	+	+-	$\vdash \mid$	+	++	+			SCT.			29
Comparison Manual Control Comparison   Com		FF F	1	Ì		_	+	+	十	十	十	+	H	$\vdash$	十	+	+	Н	$\dashv$	+	+	+	Н	-	+	+-	H	+	H	+-			-	22	19	OF
Comparison Manual Control Comparison   Com		CE 430		1 2	1	+-	╁	╁	十	+	+	╁	H	$\dashv$	+	╁	┢	Н	$\dashv$	+	+	+-	Н	$\dashv$	+	+-	H	+	+		Į ĮŽ	Ę	FIE			2
Comparison Manual Control Comparison   Com		E E	0	¥ YE	8	+	╁	$\vdash$	+	+	十	╁╌	H	$\dashv$	+	╁	╁	Н	$\dashv$		╀	+	$\vdash$	-	+		$\vdash$	+	$\vdash$	-		'[	7		$\square$	
Comparison Manual Transmission   PRODUCTION SCHEDULE (EXHIBIT   Comparison Manual Ma	]	S E	AR	LEND	2	╁	╁┈	${oldsymbol{arphi}}$	+	+	+-	╁	H	$\dashv$	+	+	┼	Н	-	+	+	-	$\sqcup$	-	+	+	$\vdash$	_	$\sqcup$		747		ė į	6]	9	Š
Comparison Manual Control Comparison   Com		N N	YE	5		+-	╀	₩	+	+	+	╀	╁╌┨	+	+	+	╄	Щ	4	$\dashv$	╀	+	Н	4	1	4	Н	_	$\sqcup$	$\bot$	[-	L				GE
Comparison Manual Control Comparison   Com	7	ITE 40N	AL.			+	╀┥	Н	+	+	- -	╀	┦┦	_	+	$\bot$	╀	Ц	4	4	+	1		4	4	4_	Ш		Ш	$\perp$	N	E E	Ę			la a
Comparison Manual Control Comparison   Com	, <u> </u>	13 13	ISC			+	-	H	+	+	4-	╄	$\sqcup$	_	+	_	lacksquare	Ц	$\Box$	4	1	╄	Ц	_	$\perp$	4_	Ш	_ _	Ш	$\bot$	H.	EAD	- '	٣	3	Ш
Separation/Budget Activity   Separation   Separation   Separation/Budget   Separation   Separa		P-	Ĺτ <sub>ι</sub>	1		$\bot$	$\perp$	$\vdash$	$\downarrow$	4	4		Н	$\dashv$	_	$\downarrow$	_	Ц	_	$\perp$	4	_	Ц	$\dashv$	_		$\perp$	$\perp$	Ш				ŧ.	9	9	17
Separation/Budget Activity   Separation   Separation   Separation/Budget   Separation   Separa	Ĭ					_	$\perp$	Н	$\bot$	4	$\bot$	L	$\sqcup$		4	$\perp$		Ц	$\perp$	_	┸	_	Ц		$\bot$	_	Ш	$\perp$	Ц	$oldsymbol{\perp}$	l Ogo	1	-			]
SOPRIATION/BUDGET ACTIVITY   SOURCHEDULE     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCHEDULITION     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCH     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCH     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCH     COURRENT   SOURCH     COURRENT   SOURCH     ALL						╄		Ц	$\bot$	$\bot$	1	$oldsymbol{oldsymbol{\perp}}$	Ц	$\perp$	$\bot$	┸	_	Ц		ᆚ		L	Ц			$\perp$	$\sqcup$					1		AL	EE	Σğ
SOPRIATION/BUDGET ACTIVITY   SOURCHEDULE     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCHEDULITION     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCH     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCH     COURRENT AMMUNITION, ARMY ACTIVITY   SOURCH     COURRENT   SOURCH     COURRENT   SOURCH     ALL	I X					_	L	Ц	$\perp$		丄	L	Ш	$\perp$	$\perp$	$\perp$																		II	SE	LIN
SOPRIATION/BUDGET ACTIVITY   CONTRIBUTION SCHEDULIS     SOPRIATION/BUDGET ACTIVITY   CONTRIBUTION     SOPE   PROGRAM QTY   Prior   Sor	巴			8		$\perp$		Ц	$\perp$	$\perp$	上	L	Ш	$\perp$			L												П					IN	RE	7
S	ы				ž		Ш	Ц	$\perp$	$\perp$	$\perp$		Ш		╧	1							П				П		П							"
S					¥4	14		Ш	$\perp$				Ш						ĺ	Т	Г	П	П			T	П	Т	П	14	ဍ	ž Č				١
S	Ë	2	0	YEAR	MAR.			Ш					П	T	Т	Γ		П	П	T			П			Т	П	T	П	T	SHIN	Đặi Sĩ				L
S	핅	읾	۰ د	M.	FEB				Т	Т	T		П	Т	T	Т	П	П	Т	T	T	Τ	П	T					$\Box$		ž U	<u> </u>	7	=	,—	
S	S	Ħ	EA	CALES	JAN				Т	T	Т	П	15	T	T	T	T	П		$\top$	T		П	1	$\top$	$\top$	H	1	$\Box$		E	3		0 0		
S	Ž	ş	بر د			T	П	19A	T	Т	T	П	П	丁	T	T	Г		T	$\top$	T	T	H	7	1	1	П	╅	$\dagger \dagger$	$\top$		1				
S	밁		CA		202	Τ	П	<u>Ş</u>	T	1	T	П	П	$\top$	T	1	$\top$	Ħ	1	1	T	1	П	十	十	$\top$	П	1	f	+		1	.32	2 2		
S	티티		FIS	9.	ţ	T	П	留	T	T	$\top$		П	十	1	1	Т	П	7	1	T	1	H	十	十	$\top$	H	$\top$	Ħ	+	Ē	Ŀ		- 1	1 1	1
S	밁	E		to t	-	14	П		15	इह	३डि	8	121	十	T	╁		Н	7	1	$\dagger$		Н	十	十	╅	Н		$\dagger \dagger$	14		죝】	8	위의		Ì
S	잁									ᆗ드	逌	فا	힠		4	_		Ц	4		$\perp$			_		_	Ш		Ш	_   0	DE (	ĮŽŠ		이	<u> </u>	
APPROPRIATION/BUDGET ACTIV PROCUREMENT AMMUNITION, ARMY PROCUREMENT AMMUNITION, ARMY NO. M R	짋	E El	CEP.	غ و	ا	၂ခ		Ė	6	힑존	?   S	0.0	임	- [							ĺ			ı	-					21			$\Box$	$\top$	$\Box$	1
APPROPRIATION/BUDGET ACT PROCUREMENT AMMUNITION, AB PROCUREMENT AMMUNITION, AB NO. M R FY FY FY FY 1 FY FY FY FY 2 M TOT 1.80 2 M TOT 1.80 3 M TOT 0.05 3 M TOT 0.05 3 M TOT 0.05 3 M TOT 0.05 4 M TOT 0.05 4 M TOT 0.05 5 M TOT 0.05 6 M TOT 0.05 6 M TOT 0.05 7 M TOT 0		≧ ≩	N 8			0	H	-	ᅷ	╡╒	환	P		+	+	╀	$\vdash$	Н	+	+	+	4	Н	+	-	+	Н	_	$\sqcup$	48		Ξ				1
APPROPRIATION/BUDGET, PROCUREMENT AMMUNITION, V FY FY FY NO. M R FY FY FY 3 M TOT 0.05 3 M TOT 0.05 3 M TOT 0.09 3 M TOT 0.09 4 M TOT 0.05 4 M TOT 0.09 5 M TOT 0.09 5 M TOT 0.09 5 M TOT 0.09 5 M TOT 0.09 5 M TOT 0.09 6 M TOT 0.09 6 M TOT 0.09 7 M TOT 0		뜋	ŢŢ		FY	.14		MPC					15																			NA	E	딢		
APPROPRIATION/BUDGE PROCUREMENT AMMUNITI PAC U E PROGRAI NO. M R FY FY FY 3 M TOT 0.05 3 M TOT 0.05 3 M TOT 0.05 3 M TOT 0.05 4 M TOT 0.05 4 M TOT 0.05 5 M TOT 0		ું ફો	<u> </u>	١			H	8	十	T	+	60	19	十	十	t	1	$\vdash$	+	+	╁	+	H	$\dashv$	+	+	$\vdash \vdash$	+	H	1	'   <sub>8</sub>	SE		- 1		
APPROPRIATION/BUJ PROCUREMENT AMMUN PROCUREMENT AMMUN NO. M R FY FY 1 M TOT 1.80 2 M TOT 1.80 3 M TOT 0.0 3 M TOT 0.0 3 M TOT 0.0 4 M TOT 0.0 5 M TOT 0.0 6 M TOT 0.0 7 M TOT		E	RAI			-	$\dashv$	1	+	+	15		$\vdash \vdash$	+	+	╀	1	$\sqcup$	4	+	+	4	Н	$\dashv$	4	-	$\sqcup$	$\bot$	$\sqcup \downarrow$	EN EN		Ä	ĮĮ.	ğı ş		
APPROPRIATION/ PROCUREMENT AM PROCUREMENT AM S FY  ALL ALL ALL ALL ALL ALL ALL ALL ALL A			§ 00		FY 07	7	$  \  $	PAC			10											1					$  \  $			Si C	5	SC	I d			
PROCUREMENT PROCUREMENT PROCUREMENT S FAC N E NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.		욹퇿	H		7. 6	2	П	1	18	200	<u> 1</u>	П	$\Box$	$\top$	$\top$	T	П	П	$\forall$	$\top$	T		П	7	$\top$	1	П	$\top$	П			27	A		5	
APPROPRIA PROCUREME PROCUREME S NO.		볉벍			~   0	-	H	+	4-	ᆛᄋ	<b>→</b>	H		+	+	+	$\vdash$	${oldsymbol{ert}}$	+	+	+	+-	${oldsymbol{ee}}$	+	+	+	╟	+	- -	Fig		A.F.	F	뛺	3	
PROCUR NO. M		图点	លកា	<b>P</b>	>	A.			[	3 5	킬퉏	뎚	[집													1					Ľ		뵈	2 5		
APPR PRC NO. 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		병병	. 5	Σ	十	丰	Ħ	#				Σ	室	#	#	+	$\vdash$	Ħ	#	#	+	#	Ħ	#	#	#	Ħ	#		4	,	, ]				
E E E E E E E E E E E E E E E E E E E		R &	نِ							^ارّ	"  <u>"</u>																					ξŠ.		~ ~		
		AE	FA	ž			$\sqcup$		T,	Ι`	上	Ľ	Ш	丄	丄			Ш			1			$\perp$			Ш	丄	Ш		<u></u>	نــــــــــــــــــــــــــــــــــــــ	_		٠	

•		1	!								DATE		
<b>+-1</b>	BUDGET IT		LEM	JUS	JUSTIFICATION SHEET	AT	NOI	SHE	딥크			FEBRUARY 1997	1007
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	VITY					P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE			INWONE	7. 5. →
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	MUNITION, A	RMY/A	CTIVITY 1	AMMU	NOITION		CTG 40MM	TP M9	CTG 40MM TP M918 LINKED F/MK19 MG	F/MK19	MG		0
	FŸ	96	FY	97	FΥ	98	FŸ	66	λi	00	۲	10	01 00 EV
QUANTITY	19	1940	2125		1331			1		3		1	
(Thousands)	1	) †	7917		TCCT		7000		1948		2180		2005
						Ī							

(E71100)

05/1676

35.2/30.2

₩

37.4

₩

32.7

ላን

32.9

21.4

30.9

33.5

(In Millions)

COST

#### DESCRIPTION:

with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard at a 1200 visual signature for day or night firing, the TP for MK19 gun will minimize hazard to troops in the training area. This item will be procured through the CAWCF at a fixed standard meter minimum range under standard atmospheric conditions and level terrain. In addition to providing audible/ The 40mm Target Practice (TP) cartridge for the MK19 Machine Gun is a high velocity training projectile This item is Code A, approved for service use.

## JUSTIFICATION:

builds a depot level in accordance with the Army's procurement goals. This cartridge is required since firing the This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and standard service 40mm high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The M918 allows frequent and safe MK19 MOD 3 40mm Grenade Machine Gun and M124 crenade Launcher training.

# TYPE CLASSIFICATION DATE:

1985

DD Form 2454, JUN 86

P-1 SHOPPING LIST ITEM NO. 12 PAGE NO. 13 of 29

Page of Pagne Exhibit P-40

` .

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1310-01-317 5948 (E71100)

PCN: P020M1D0C45

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 40MM TP M918 LINKED F/MK19 MG

	FY 96 (QTY		1940405)	FY 97 (QTY		2125151)	FY 98 (QTY		1330621)	FY 99 (QT'Y	100	(999185)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ŶŢŶ	UNIT	TOTAL	ŸŢĢ	UMTT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.PROJ ASSY 3.CTG CASE M169 4.PROP M2 SP .019 (LB) 5.M550 ESCAPE	1940405 1998618 2018022 29107	2.91 6.96 0.92 26.12	5652 13914 1854 760	2125151 2188906 2210158 31878	2.67 6.32 0.79 21.93	5685 13844 1743	1330621 1370540 1383846 19960	3.84 5.36 1.15 24.85	5107 7345 1597 496	1999185 2059161 2079153 29988	3.92 5.47 1.18 25.37	7833 11266 2450 761
ASSY 6.DET STAB M55 7.LINK M16A2 SUBTOTAL	2043635 2047128 2056830	1.49 0.32 0.22	30391 6651 4631 263471	2238210 2242035 2252661	1.35 0.33 0.20	3019 740 445	1401411 1403806 1410459	1.67 0.38 0.76	2346 529 1079	2105542 2109141 2119137	1.71 0.38 0.78	3599 811 1655
PRODUCTION SUPPORT												5750:
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPOL 6.CAWCF GAIN/LOSS SURCHAI	ENGINEERING URANCE TESTING NSPORTATION STOCK SUPPORT LOSS SURCHARGE		817: 303: 100: 1120: 4816:			1082 285 249 3061			1891 246 213 133 654			2900 71 326 204 1005
SUBTOTAL			·:			4714			2937			4506
**************************************	*****	17.29	*	14.54	*	30889	16.	16.11	21436!	7*************************************	16.45	32881

P-1 ITEM NO. 12

PAGE NO. 14 of 29

EXHIBIT P-5

	1 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT		HISTORY & PLANNING		DATE:		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-01-317-5948	01-317-5	948	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	AMMUNI	TION	CTG 40	MM TP M918	CTG 40MM TP M918 LINKED F/MK19	9 MG	; ; ;	(E71100)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAII.
1. LOAD, ASSEMBLE, AND PACK (LAP)	! ! ! ! ! ! ! ! !		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;					
FY 1996 MARTIN MARIETTA MITAN THE	SS/CPAF	IOC	JUL 96	70 NUL	1940405	2.91			
FY 1997 MARIETTA	SS/CPAF	IOC	APR 97	AUG 98	2125151	2.67	YES	ON	
FY 1998 MARTIN MARIETTA	SS/CPAF	IOC	DEC 97	APR 99	1330621	3.84	YES	CN	
FY 1999 MARIETTA MILAN, TN	SS/CPAF	IOC	DEC 98	APR 00	1999185	3.92			
2. PROJ ASSY **									
FY 1996 A&A ELECTRONIC	C/FP	IOC	36 NOC	JAN 97	1998618	96.9			
FY 1997 TBS FY 1998 TBS FY 1999 TBS	C/FP C/FP C/FP	IOC IOC	NOV 97 JUL 98 JUL 99	MAY 98 JAN 99 JAN 00	2188906 1370540 2059161	6.32 5.36 5.47	YES	ON ON	
REMARKS:	1 5 7 8 8 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	- 1

\*\* PACING COMPONENT TBS - To Be Selected PAGE NO. 15 of 29

P-1 ITEM NO. 12

EXHIBIT P-5A

A A

PCN PO2QM1DOD42

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	: FEBRUARY 10	DATE: FERRUARY 1997	
			P-1 IT	P-1 ITEM NOMENCLATURE	ATURE	NSN = 1310-	1310-01-317-5948	948	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	VITY 1. AMMUNITION	ITION	CTG 40	MM TP M918	40MM TP M918 LINKED F/MK19	) MG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(E71100)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
3. CTG CASE M169	                 		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
FY 1996 CARON CORP.	- SS/FP	IOC	SEP 96	96 AON	2018022	0.92			
FY 1997 AMRON CORP	SS/FP	IOC	JUL 97	MAY 98	2210158	0.79	YES	NO	
WAUKESHA, WI FY 1998 AMENON CORP	SS/FP	IOC	MAR 98	JAN 99	1383846	1.15	YES	ON	
WAUKESHA, WI FY 1999 AMRON CORP WAUKESHA, WI	SS/FP	IOC	MAR 99	JAN 00	2079153	1.18			
4. PROP M2 SP .019 (LB)									
FY 1996 ALLIANT TECH SYS	- SS/FP	100	MAR 96	96 LOO	29107	26.12			
FY 1997 ALLIANT TECH SYS	SS/FP	COL	JUL 97	VOV 97	31878	21.93	YES	ON	
FY 1998 ALLIANT TECH SYS	SS/FP	IOC	DEC 97	APR 98	19960	24.85	YES	ON	
FY 1999 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	DEC 98	APR 99	29988	25.37			

			PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	RY 1997	
APPROPRIATION/BUDGET ACTIVITY	r ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-	1310-01-317-5948	948	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ION, ARMY/ACTIVI	TY 1. AMMUNIT	NOI	CTG 40	MM TP M918	CTG 40MM TP M918 LINKED F/MK19	MG		(E71100)	(00
LINE ITEM/ FISCAL YEAR CON	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAII, NOW	SPEC REV REQD	TE YES WHEN AVAIL
5. M550 ESCAPE ASSY	,	 	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	:	
FY 1996 DAYRON	I CORP	SS/FP	IOC	SEP 96	JAN 97	2043635	1.49			
FY 1997 DAYRON	CORP TCORP	SS/FP	IOC	JUL 97	JAN 98	2238210	1.35	YES	MO	
FY 1998 DAYRON	I CORP	SS/FP	IOC	JUL 98	JAN 99	1401411	1.67	YES	NO	
FY 1999 DAYRON CORP ORLANDO, FL	CORP OO, FL	SS/FP	IOC	OUL 99	JAN 00	2105542	1.71			
6. DET STAB M55										
FY 1996 DAY &	ZIMMERMAN	SS/CPFF	IOC	MAR 96	OCT 96	2047128	0.32			
FY 1997 DAY &	ZIMMERMAN	SS/CPFF	IOC	JUL 97	FEB 98	2242035	0.33	YES	ON	
FY 1998 DAY &	ZIMMERMAN	SS/CPFF	IOC	MAR 98	OCT 98	1403806	0.38	YES	ON	
FY 1999 DAY & ZIMMERMAN TEXARKANA, TX	ZIMMERMAN ANA, TX	SS/CPFF	IOC	MAR 99	OCT 99	2109141	0.38			
REMARKS:								: : : !	:	

PAGE NO. 17 of 29 12 P-1 ITEM NO.

EXHIBIT P-5A

PCN PO2QM1DOD4Z

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROCUREMENT	HISTORY	HISTORY & PLANNING	 	DATE:	DATE: FEBRUARY 1997	(Y 1997	:
APPROPRIATION/	APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310 - 01 - 317 - 5948	1-317-59	48	
PROCUREMENT AM	MUNITION, ARMY/AC	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI	TION	CTG 40	MM TP M918	40MM TP M918 LINKED F/MK19 MG	MG		(E71100)	(0)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REOD	1F YES WHEN AVAIL
7. LINK M16A2			i i i i i i i	 	† 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1	
FY 1996 FY 1997 FY 1998 FY 1999	TBS TBS TBS TBS	C/FP C/FP C/FP	100C 100C 100C	FEB 97 NOV 97 JUL 98 JUL 99	AUG 97 MAY 98 JAN 99 JAN 00	2056830 2252661 1410459 2119137	0.22 0.20 0.76	YES	ONO	
REMARKS:	} 			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		; ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

TBS - To Be Selected

P-1 ITEM NO. 12 PA

PAGE NO. 18 of 29

EXHIBIT P-5A

			PRODUCTION	TIOL	i 1	SCHED	ULE	(EXI	(EXHIBIT		-21)					DATE FEBRUARY	EBRU	ARY 1	1997		REQUIE IND CON	VENERITY VP (AR)	REQUIREMENTS CATTRAL SYMBOL DD COMP (AR) 1002	CYME	
PROCU	PRIATI	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY	TIVIT	1. A	/ 1. AMMUNITION	NOI				P-1 CTG	CTG 40MM	1	NOMENCLATURE TP M918 LINKED	LATURE LINKED	ഥ	F/MK19 MG	20							E71100	0
FAC U	o El	PROGRAM OTY	P. BAL	ISCAL	YEAR	97	,			FI	SCAL	YEAR	86					FISCAL	=	EAR 99				12.5	<
		בי בי בי	1 oct 1 oct	96	CALEN	CALENDAR YEAR		2[	ŀ	-		CALENDAR YEAR	R YEAR		98				CAL	CALENDAR YEAR		66		-	e . 2:
	1	: a	30	OCT NOV DE	DEC JAN F	FEB MAR	APR MAY	Y JUN JUL	MUG	SEP OCT	NOV DEC		JAN FEB MAR APR		MAY JUN J	JUL AUG SEP	SEP OCT	YON T	DEC JAN	N FEB MAR	AFR	MAY JUN	JUL AUG	SEP	. α
1 M	MAC	20 00	18	1	<u> </u>	32,32	101	+	#	100	+	1	$\downarrow$	+	1	Ŧ	1	$\bot$	1	_	#	+			T
1 M	4 A	1.94	0.00 1.94			_		38.38	8	38,38	0.0	L	‡	1		$oxed{\top}$	$oldsymbol{\perp}$	-	$\pm$	+	1	+	1		00
1 M	4 A	2.13	0.00 2.13										1	$\perp$		a r	200	38 38	38 23	-	-	-			00.0
1 M	4 A	1.33 0.	0.00 1.33		H	Н					-	L				?				-	38	30 38	10		00.0
1 M	M A	2.00 0.	0.00 2.00								H			H								•	1	2	2.00
				$\downarrow$	$\downarrow$	-	1		1	$\dashv$	$\dashv$														
			0.00 0.00	$\dagger$	$\downarrow$	+	$\frac{1}{2}$	$\downarrow$	$\downarrow$	7	+		$\dashv$	$\dashv$		4								0	0.00
T	1		0.00 0.00	1	#	+	$\perp$	$\downarrow$	1	7	+	1	$\downarrow$	$\perp$	$\perp$	-				1		-		0	0.00
7 -	ي و اي	0.39	0.00	+	+	+	1	$\downarrow$	#	1	+	$\downarrow$	$\downarrow$	+	1			11:11	.11.04	4	_		1	0	0.00
Γ		5	0.00	$\downarrow$	+	-	$\pm$	‡	†	1	+	$\frac{1}{2}$	$\downarrow$	$rac{1}{4}$	1	1	+	1	+	$\downarrow$	.05	05.10	1.17	0	0.00
1	1111	70.02	79.00	$\ddagger$	#	+	$\pm$	+	#	1	+	$\pm$	$\dagger$	$oxed{+}$	$\pm$	1	+	1	+		#	-			0.62
-	MAF	80 0	80 0 00 0	+	+	1	9	$^{+}$	1	1	+	$\frac{1}{2}$	#	$\bot$	$\perp$	Ŧ	+	1	+	$\frac{1}{4}$	#			1	
	1		00 00 00	L	#	-		+	+	1		1	1	$\perp$	$\perp$	$\perp$	+	1	+	$\downarrow$	+	+		٥	00.00
2	AF.	0.00	0.00.00			1		L	1	1	+	$\frac{1}{2}$	+	$oxed{\Box}$	$\perp$	Ŧ	+	1	+	$\downarrow$	+	+			00.0
Σ	M AF	00.0	0.00 0.00		L	$\vdash$	$\vdash$			F	-	L	t	$\perp$		F	+	Ŧ	+	+	+	+		ء اد	000
2	MAF	0.00 0.	0.00 0.00	Ц	H	$\Box$								-		L	+		1		-	+	-		2 6
1				$\exists$	$\downarrow$	$\dashv$	$\dashv$				$\dashv$						H								9
					1	$\dashv$	$\dashv$	$\downarrow$		7	$\dashv$			_											
	- 1		ᅃ	$\downarrow$	1	32,32	.18		1	8	-			-			H								Γ
1	ALL		0.00 1.94	1	1	$\blacksquare$	+	.38.38	<u></u>	38.38	04	$\frac{1}{2}$	$\downarrow$	4	_	1	- 1							0	00.0
	TIE.		0.00 2.72	$\pm$	$\downarrow$	-	+		1	#	$\bot$	1	1	1	_	.49	49.4	49.49	.49.27	_				0	0.00
	ALL		0.00 1.70	$\frac{1}{2}$	$\dagger$	$\mp$	+	$\downarrow$	+	#	+	1	$\downarrow$	7	+	7	+	7	+		.43	43.48	.36	0	00.0
	ALL.	7.07	0.00	$\pm$	1	T	+	$^{\dagger}$	1	+	-	$\pm$	1	1		1	+	1	-		1	-	$\frac{1}{1}$	7	.62
		PACING COMPONENT:	PROJ	ASSY	1	F		1	1	1	F	$\perp$	$^{\dagger}$	T	+	1	+	1	+	$\pm$	+		$\frac{1}{2}$		
						П	H			H					-	-	+	L	-			-			
2 M	4 TOT 0.76		0.38 0.38 19	9.19						_							L		-			L		c	000
2	M TOT 0	0.13	0.10 0.03.03				$\dashv$	$\exists$		1							H				_				00.0
					$\downarrow$	1	$\dashv$	1		1	7	$\frac{1}{2}$													
		PRODUCTION 10.	0.00 9.80	$\exists$		32.32	.18	38,38	38	38.56.	04					.49	49.49	9.49	49.27		.43	43.48	.36	2.	. 44
FAC	MA	MANUFACTURER NAME	PRODUCTION	LION	RATES MONTH		5 XX		PR	OCURE	PROCUREMENT	LEAD	TIME	[-3	<u> </u>	PACING COMPONENT	COM	PONEN	Ē						
<u> </u>		& LOCATION	SUST	1-8-5	MAXIMIM		D-DAY		₹  <u>₹</u> .	IOR LE	VETER		TOTAL	TAL			UALT	딘	ALT	PDN		TOTAL			
	MILA	MILAN AAP, TN	- 1	8	1.30				<u> </u>	E ,	<u>ا</u> ا	뙤	AFTE	R 1 OCT	_	INITIAL			10	6		19			
2 5	DAYRON,	AYRON, FL	- 1	0.10	0.25	- 1	$\top$	INITIAL	IAL	9	<u>~</u>	19		22	<u>rc</u>	REORDER	.R. 6		10	9		16			
7	* P		00.0	01.0	0.50	- {		REORDER	DER	9	m	16		19								į			
															] ]						NEO	11.1	COANTILY IN MILLIONS	IONS	

P-1 LINE NO. 12 PAGE NO. 19 OF 29 PAGES

	E71100		; <del>-</del>	3FI R		0.00	0.00	0.00	2.06						-						_							2.44					SNC
DD COMP (AR) 1002	Э			JUL ANG SE	+	+				+	+	+							+		+				+			36					QUANTITY IN MILLIONS
(AR) 1			6	HAY JIRV J	†	+		1			+		+			1			#			-			+		_	43.48.		TOTAL	19	) H	TY IN
DD OCME			1R 99	AFR	+	1	,	35.32	_	$\frac{1}{1}$	+	+	1						+						+		+	.43.4					QUANTI
		EAR 99	CALENDAR YEAR	N FEB MAR	1	1	1	35.35.3		_														$\downarrow$			+			д	מ ע	•	
1997		[X	CAI	DEC JAN		$\frac{1}{4}$	+	<u>~</u>																+	$\perp$			.49.2	F	ALT	10	) 	
FEBRUARY		FISCAL		OCT NOV		Ť	.35.09															-			-			.49.49.49.49.27	OMPONE	UALT	ب م		
FEB	19 MG			AUG SEP	1	1	.35.35											1										.49.49	PACING COMPONENT		INITIAL REORDER		
	F/MK		98	JUN JUL	_		35.35	1						-	$\frac{1}{2}$	ł								+	-								
F-61) P-1 ITEM NOMENCLATURE	TP M918 LINKED F/MK19 MG			APR MAY		1	.35	1		$\frac{1}{1}$		-						1											ME	TOTAL	1 🕾	,	19
OMENC	P M918	4R 98	CALENDAR YEAR	JAN FEB MAR	;	3.13.18	1	1			1			$\frac{1}{2}$				$\frac{1}{2}$	1	$\perp$	-								PROCUREMENT LEAD TIME		6		٥
TEM N	CTG 40MM TP	AL YEZ	CAL	DEC	1	13.13		1	$\frac{1}{1}$	$\frac{1}{2}$					+				-								+	$\prod$	NT	E E	-	+	16
	olc.	FISC		OCT NOV	7	13.13	1	1	$\frac{1}{2}$	$\perp$				1	$\pm$			1	1					1			-	38.38.38.56.04	CUREME	AFT	6 3	+	9
TGTUVI				AUG SEP	-	1.13.13	1	$\frac{1}{2}$	1	$\frac{1}{2}$	$\perp$	$\perp$				$\perp$		$\frac{1}{2}$										38.38	PROC	PRIC		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	
[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [			97	JUN JUL	-	51.51.5	$\frac{1}{4}$	1			+	$\pm$		$\downarrow$	1	$\pm$												.38.38				INITIAL	NEON
1				APR MAY	12 13	1	1	$\downarrow$	1		1			1					1								1	32.18	S TO	D-DAT			7
מחטקייוייט	LTION	1K 97	CALENDAR YEAR	DEC JAN FEB MAR APR	12 13	7	$\frac{1}{1}$	1	1	$\frac{1}{1}$	$\downarrow$				$\pm$			1		1	$\pm$			$\perp$			1	. 32, 32	PRODUCTION RATES REACH MAX	OM AFTER	0.25 0	0.25 0	0.50
- 1	1. AMMUNITION	УЕ УЕ <i>1</i>	CAL	DEC JAN	1,	1	$\downarrow$	$\frac{1}{2}$	1	+					$\frac{1}{2}$			$\pm$			$\frac{1}{2}$		1				_		N RATE	MAXIM			
	. 1 . 1.		96	OCT NOV	1	1		1	1		-	$\perp$		$\pm$	$\pm$			$\frac{1}{2}$	$\perp$		1						1		UCTIO	1-8-5	- i	1 1	01.0
TY	CTIVIT		T AS OF			0 2 0	2 7 7	10.1	0.00 2.06	-	-			+	-	-		1	+	-	_			1	$\downarrow$		_	0.00 9.80	PROD	SUST	0.00	0.00	0.00
CTIVI	ARMY/ACTIVITY	ACCEP.		FY	Т	3 6	2 0		0.0	+		+		+	+	+	H	+	+	$\dashv$	-	-		+	+		+	0.0	VAME				
GET A		RAM QTY		FY	_	$\frac{1}{2}$	2.7		z	$\perp$		$\perp$		1	$\pm$			1	$\perp$					$\pm$			$\perp$	NHEY	URER	NOT I	2	E	
N/BUD	AMMUNI	PROGRAM		FY FY	אַסָּבּוּ		4:13	+	$\downarrow$	+	-	-			-			+	_		- -					$\prod$		TOTAL MONTHLY PRODUCTION	MANUFACTURER NAME	LOCA	DAYRON, FL	A & A ELECT, FL	TO BE SELECTED
APPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION,	ω <sub>Е</sub>		$\dashv$	E C	₩.	1 5		IQI.	+	-	$\dagger$	$\ $	1	+	1		+	$\dagger$					+	$\vdash$	$\parallel$	+	PR	MAN	× i	DAYRON,	A & A	TOBE
PPROPI	PROCUE	FAC U					E 2	E .	4 M	T			Ħ	+	Ŧ		H	7	Ŧ	$\exists$			Ħ	+	F	Ħ	Ŧ		FAC	S	7 2	<sub>د</sub> .	4

PROCUERATION/BUDGET ACTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIVITY  PROCUREMENT AMMUNITION, ARTIFFE  PROCEDURE IN A COND COND COND COND COND COND COND COND
TIVITY 1.  INTERIOR 1.  INTERIO
TIVITY 1. AMMUNITION  I or or how dec law fee has are are  1. 00
ACTIVITY   AMMUNITICAL   AMM
PRODUCENT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRIOR NO. 1 OCT PRODUCENT:

P-1 LINE NO. 12 PAGE NO. 21 OF 29 PAGES

÷	001	<	ي د	.j.x	00		00 0	0.00		İ																										$\neg$
PECUTEMENTS COTTROL SYMBOL DD-COMP (AP) 1002	E71100			3.35													†							Ť	1			-	$\dagger$						OUANTITY NI YTTTONS	25.
TROL				AUG	_	_																														
55				JOL	_	$\perp$		_	Ц	_	_	_			_	1	1	$\perp$							$\perp$			_					_		∑ Z	
(AP)				SUR	$\perp$	1	╀	<u> </u>		4	1		ļ		$\dashv$	_	$\perp$	↓_	<u> </u>	Ш			_	_			$\perp$		<u> </u>	Ц.		T KECH	197	16	 	
COMP			02	ž z	+	$\bot$	$\vdash$	ļ	$\sqcup$	-	$\bot$	-	_	Ш		_	ļ.,	1				_	4	$\perp$	_	Ц	1	_				Ė	<i>→</i>		TIL	
PEC-			۳	A A	+	╁	+-	├	-	+	+-	$\perp$			-	+	+	+			_	+	_	+	-	-	4	1			41	5	<del>-</del>		JUAN	
1 1			AR YE	8	+	+	+	-	Н	+	+	+	-		$\dashv$	-	+	┼	-		$\dashv$	$\dashv$	-	+	+-	$\vdash$	+	+	Н			נתם	1 6	9		
		YEAR 02	CALENDAR YEAR	JAN FEB MAR AFR MAY	+	╁	╁	-	H		+	+	┢		$\dashv$	+	╁	+			+	$\dashv$	+	+-	+	H	+	+-	$\vdash$	$\vdash$	$\parallel$	-				
1997				DEC C	†	T		┢		十	$\dagger$	╁			+	+	╁	+			$\dashv$	$\dashv$	+	┪	-	H	+	+	Н	╁	-	₽1.∃	101	10		
Y 1		FISCAL		NON	1	†	$\vdash$				1	1			7	+	$\dagger$				$\dagger$	+	+	+			$\top$	╁	H	+	PAN PKS COMPONENT	1				
DATE FEBRUARY		FIS		SEP OCT		T					T	T						T			$\top$	1	$\top$	1			+	╁	Н			UALT.	9	9		
EBR	ß																										1	-	П		2	? =		ξ.		
A'TE J	F/MK19 MG			AUG	$\perp$	┸	L	<u> </u>		1			Ц		$\perp$	$\perp$	$\perp$														A K	<b>t</b>	INITIAL	REORDER		ES
<u>a</u>	/MK		ł	JUN JUL	_	_	-	L	$\sqcup$	+	_	$\perp$		_	4	$\downarrow$	$\perp$				$\downarrow$	$\perp$	1			_	1						NI	Ä		PAGES
			01	5 5	+	╀	╀	-	Н	+	+	1	Н	$\dashv$	-	4	+		Ц	4	$\dashv$	$\downarrow$	$\bot$	_	$\sqcup$		_ _				ļΓ	Γ	DC.T		$\Box$	29
	NOMENCLATURE TP M918 LINKED			APR MAY	╁	+	╁╌		$\vdash$	+	+-	╀		$\dashv$	$\dashv$	+	+	-		-	+	4	+	-	$\vdash$	+	- -	$\downarrow$		+			1 O	22	19	O.F.
	CL.	01	ž	χ 8	╁	╁	+	-	$\vdash$	╁	╁	+	Н		+	+	╁	$\vdash$		$\dashv$	$\dashv$	+	+	╁	H	$\dashv$	+	+	$\vdash$		TMT		AFTER 1	•		22
	MEN M91		CALENDAR YEAR	JAN FEB MAR	t	$\dagger$	$\vdash$	Н	$\vdash$	†	╁			$\dashv$	+	$\dagger$	+	Н		$\dashv$	+	$\dashv$	+	+	$\vdash$	+	+	+	$\vdash$	- -	E	'I		-	$\dagger \exists$	1'
	2 E	ÆAF	CALEN	N. C.	T	1-	T			$\dagger$	$\dagger$	T		$\exists$	$\top$	$\dagger$	十	Н		┪	$\dagger$	+	+	+	H	$\dashv$	+	+	$\vdash$		T.FAD		٠.,	13	16	PAGE NO.
1	4 OMM	,   		DEC																╗	7	1	T	1	$  \cdot  $	十	Ť	+-	$\exists$	+	<u> </u>		ž [-			PAG
1 1	CTG 40MM	FISCAL YEAR		NOV	$\downarrow$	L	L	Ŀ		$\perp$	L			_														I			F. W.F.	ADMIN LEADTIME	8	m	m	1,
	CT C	<u>F</u>		0 4	+	┞		Н	$\downarrow$	+	+	Н	Ц	4	4	$\bot$	1	Ц		_	_	_	<u> </u>	$\downarrow$		_	$\perp$	Ц			CIR	L	ξĘ	9	9	77
(EXHIBIT				AUG SEP	╁	-	H	Н	$\dashv$	+	+	Н		$\dashv$	+	+	+	Н	$\dashv$		4	+	-	╀	$\sqcup$	_	4	$\perp$		2.10	PRO		<u> </u>		Ļ	o,
H				Jul.	+-	$\vdash$		$\dashv$	$\dashv$	+	╁	Н	$\dashv$	+	+	+	+	Н	-	+	+	+	+	╂	H	+	_	+	$\dashv$	50.52				LIAI	OEF	NE N
X			8	205 205	T	$\vdash$		31	+	+	$\dagger$	Н		$\dashv$	$\dagger$	╁	$\dagger$	H		$\dashv$	+	+	╁	╁	H	╁	+	Н	$\dashv$					INITIAL	REORDER	P-1 LINE NO.
1 1		i		Ř				.35	十	T	†	П		7	†	$\dagger$	†	Ħ		$\dashv$	$\dagger$	+-	$\dagger$	+	H	+	+	Н	+	50, 50, 50	L	L				宀
EDULE				APR				.35							I								T		П	T	1	T	$\exists$	50.	٤	MINIMUM 1-8-5 MAXIMUM AFTER D-DAY			$\Box$	
日日	S	00	YEAR	ğ			Ш	5.35	_	_	L	Ш		$\perp$	$\perp$		$\perp$						L								CONTRAS	LTER				
SCHI	Y 1. AMMUNITION	¥	CALENDAR	JAN FEB	╀	L	Щ	35,35	$\perp$	1	╄	Ц	4	4	4	1	╀	Ц		4	4	4	1	↓	Ш		$\perp$				83	3	1.30	0.25	0.50	
	NO.	Ä,	3	DEC	╁╌	H	Н	퓌	$\dashv$	╁	╀	Н	-	+	4-	4	╀	$ \cdot $	$\dashv$	$\dashv$	+	+	+	<del> </del>	Н	$\dashv$	$\bot$	$\bot$	$\sqcup$		RAT	MAXIV	1.		히히	
	<b>A</b>	F F	ł		╁		Н	-	+	+	╁	Н	$\dashv$	$\dashv$	+	+	+	Н	+	+	+	+	+	╁	H	$\dashv$	+	+	$\dashv$	+	Z	-5-	0.38	100	0.10	
IJ	1	27 1	6	OCT NOV	T	Н	$\vdash$	Ħ	$\dagger$	t	十	H	$\dashv$	$\dashv$	$\dagger$	╁	+	H	$\dashv$	$\forall$	+	╁	+	╁	H	$\dashv$	+	+	+	╁	CTI	1-8	9	ı	!!	
	E		1 OCT		8	8	8	2.06	T	†		П	7	┪	+	T	T	П	7	$\forall$	†	$\dagger$	+	十	H	_	$\dagger$	H	H	44		MON	0.00	0.0	0.00	1
PRODUCTION	ARMY/ACTIVITY				2.00 0.00	2.19 0.00	1.37 0.00	2	+	╁	╀	Н	$\dashv$	+		+	╀	H	$\dashv$	+	+	+	+	+	$\sqcup$	+	+	+	$\dashv$	7.36 2.44	PR	MINI	0	0		Ì
PF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ACCEP. PRIOR	2 8 8	6	2.0	2.1	1.3	0.00														1			П					7.36		ı				
l lili	AR S		- 1	FY 99				2.06						T						T		T	T	T		1					I I	T T				
	` _ <del>'</del>	Š	r		-	Н	.37	اند	+	╁	$\vdash$	Н	+	+	+	╁	╁	H	$\dashv$	+	+	+	+	+	Н	+	+	$\mathbb{H}$	$\dashv$	-    -  -		i Z			18	
707	III	PROGRAM QTY	t	7 FY	1	6	ᆧ	+	+	+	$\vdash$	$\vdash \vdash$	$\dashv$	+	+	+	_	H	$\dashv$	+	+	+	+	-	H	-	+	$\dashv$	$\dashv$	TOTAL MONTHLY	1017	E LOCATION	<b>E</b>	- 1	[ = ]	
		PROC		FY 97		[2.19]		$\downarrow$	$\perp$	$\bot$	_	Ц	_	$\perp$	$\bot$	$\perp$		Ц	$\downarrow$	$\downarrow$	1	$\perp$	$\perp$		Ц	$\perp$	$\perp$	Ш		diciti	ار در	က်ပြ	AP,	티		
Į.	Z EL			FY 96P	2.00					$\perp$								$\bigsqcup$								_ [	_			TOTA		25.0	A A		A N S N	
T A T	WENT TO	លការ	× >	. [		TOT M	M TOT	M TOT					T	T					T		T	T	T		$\prod$	T					1	<u> </u>	MILAN AAP, TN	DAYRON, FL	A & A ELECT. TO BE SELECT	
المود	得記	D:	Σ	+	Σ	Σ	Σ	Σ	+	$\pm$	$\vdash$	$\boxminus$	$\exists$	$\pm$	+	$\pm$	⊨	H	$\dashv$	$\pm$	$\pm$	$\pm$	+	+	Н	$\pm$	$\pm$	$\boxminus$	$\exists$	$\exists$			П			
A PDRODR TATTON / RIDGET	PROCUREMENT AMMUNITION,	FAC			٣	4	4	4																							E	NO.		7	7	
	C	됴.	Ź						$\perp$		$\bot$	Ш		$\perp$	$\perp$	$\perp$		Ш		$\perp$	┸	$\perp$				$\perp$		Ш								┙

ſ		Ì									DATE				
4	BUDGET ITEM	H	TEM	JUS	JUSTIFICATION SHEET	AT	ION S	HE	H		T.	FEBRUARY 1997	1997		•
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	VITY					P-1 ITEM NOMENCLATURE	NOMEN	CLATURE						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, A	RMY/AC	TIVITY 1.	•	AMMUNITION		CTG 40MM PRACTICE M781	PRACTI	CE M781					(E74200)	(00
	FY	96	FY	97	Ϋ́	98	FY	66	FY	00	FY	01 02 FY	0.2		03
QUANTITY	31	316	980		2005		1300		, ,		7	1			
(Thousands)		) 1	) ) )		1	*	9067		1406		1409		-	1415/1311	
COST															

3.7/3.5

₩

3.6

₩

3.5

'n

3.4

ŧ۶

4.8

₩

2.1

(In Millions)

### DESCRIPTION:

ogive is made of a frangible plastic material and contains a colored dye in granular form, the consistency of talcum The The M781 is a low cost, unfuzed fixed round of This item will be procured through the CAWCF at a fixed standard powder, which is used to generate a signature. The propulsion system consists of a standard .38 caliber blank. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard cartridge case is made of plastic material and the projectile is also plastic with an aluminum rotating band. practice ammunition ready for use as issued and is compatible with the M79 and M203 Grenade Launchers. The M781 practice cartridge replaced the M407 practice cartridge. price.

# JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1978

DD Form 2454, JUN 86

23 of 29 P-1 SHOPPING LIST ITEM NO. 12 PAGE NO.

Page of Pages **Exhibit P-40** 

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1310-01-211 8073 (E74200)

PCN:P02QM1DOC45

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG 40MM PRACTICE M781

	FY 96 (QTY	3.	316312) I	FY 97 (QTY	97	979949) I	FY 98 (QTY	200	2004648) FY 99	FY 99 (QTY	1 38	1386027)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ŶŢŶ	UNIT	TOTAL,
HARDWARE  1.COMPLETE ROUND	316312	4.56	1443	979949	1.80	1763	2004648	2.05	4114	1386027	2.10	2904
SUBTOTAL			1443			1763		-	4114			2904
PRODUCTION SUPPORT						:   			:   			
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE	VEER ING		45			73!			420			297
3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION	ING		17!			191			47!			33
5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARG	STOCK SUPPORT JOSS SURCHARGE I		264			206			146!			103
SUBTOTAL			394			317			653			461
TOTAL P-1 LINE ITEM! 5.81 183	F*************************************	5.81	1837	***	2.12	2080!	**************************************	2.38	4767	****	2.43	3365

P-1 ITEM NO. 12

PAGE NO. 24 of 29

EXHIBIT P-5

2	ŧ
4	ŀ
Ω	ı
0	ı
Ω	ŀ
$\vdash$	ł
Σ	1
ø	ı
2	ı
0	ı
Д	ı
	ı
z	١
O	1
Д	ŧ

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	3Y 1997	: :
APPROPRIATION/BUDGET ACTIVITY	JDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310 - 01 - 211 - 8073	1-211-8	073	:
PROCUREMENT AMM	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	VITY 1. AMMUNI	TION	CTG 40	40MM PRACTICE M781	M781	; ; ; ; ; ; ; ; ;	; ; ; ;	(E74200)	(00)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REOD	1F YES WHEN AVAIL
1. COMPLETE ROUND	ONI	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	 	1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1		:
FY 1996 AC	FY 1996 ACTION MFG	- C/FP	IOC	NOV 96	JUL 97	316312	4.56			
FY 1997 TBS FY 1998 TBS FY 1999 TBS		C/FP C/FP C/FP	10C 10C 10C	AUG 97 AUG 98 AUG 99	MAR 98 MAR 99 MAR 00	979949 2004648 1386027	1.80 2.05 2.10	YES	NO NO	
REMARKS:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1	

TBS - To Be Selected

PAGE NO. 25 of 29

P-1 ITEM NO. 12

EXHIBIT P-5A

7 F

No.   No.	10   10   10   10   10   10   10   10	L
M A	3.20, 20.0.01 3.	20.20.20.20
M A D D D D D D D D D D D D D D D D D D	20.20_01 .04.10_10_08 .04.10_10_08 .08.10_10_10_10_10_10_10_10_10 .20_20 .03 .03 .03 .09 .12 .13 .10_10_10_10 .10 .10_10_10_10 .10 .10_10_10_10	.20.20.20.20
M A SOF D. 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.03 0.00 0.00 0.04 0.00 0.00		.20.20.20
M A SOF D. 62 D. 00 D. 0	.12 .02 .03 .03 .13 .10.10.10.10	20.20.20.20.20.20.20.20.20.20.20.20.20.2
M SOF D.62  M SOF D.02  M SOF D.03  M SOF D.03  M SOF D.040  M SOF D.0	.12 .02 .03 .03 .13 .13 .10 .10 .10 .10 .10 .10 .10 .10	
M SOF D. 62  M SOF D. 0.02  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.03  M SOF D. 0.04  M MC D. 0.04  M MC D. 0.04  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M MC D. 0.00  M M M M M M M M M M M M M M M M M M	.12 .02 .03 .03 .13 .10.10.10.10.10	0.00
M SOF D 0.03	1.13 10.10.10.10	0.00
M SOF	.10,10,10,10	0.00
M SOF	.10.10.10	0.00
M SOF	.10.10.10	0.00
M MC 0.61 0.40 0.21 .04.04 13 1.0.10.10  M MC 0.40 0.00 0.00 0.40  M MC 0.00 0.00 0.00 0.00  M MAF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00 0.00 0.00  M AF 0.00 0.00  M AF 0.00 0.00  M AF 0.00 0.00 0.00  M AF 0.00 0.00 0.00  M AF 0.00 0.00  M AF	.10.10.	0.00
M MC 0.40	10.10	0.00
M MC		0.00
M MC		
M AF 0.00		00.00
M AF 0.00		00.0
M AF 0.00   0.00 0.00   0.00		
M AF 0.00		0.00
M AF 0.00 0.00 0.00 0.00 M AF 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		0.00
M AF  M AF  M AF  M AF  M D 0.25 0.00 0.25  M ALL  ALL  ALL  ALL  ALL  ALL  ALL  A		00.00
ALL 2.80		00.00
2.80 0.40 2.40, 36, 04, 44, 20, 20, 20, 30, 45, 20, 01 1.01 0.00 0.74 1.01 2.09 0.00 2.09 PROBUCATON MEY 0.40 7.92, 36, 04, 44, 20, 20, 20, 30, 45, 20, 05, 12, 10, 18, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10		0.25
2.80       0.40       2.40       36.04.44.20.20.20.30.45.20.01       0.01		
D.74 0.00 0.74 0.00 1.10.18.10.18.10.10.  D.09 0.00 2.09 0.00 2.09 0.00 2.09 0.00 2.00 0.00 2.00 0.00 0	.45.20.01	00 0
1.01 0.00 1.01	.12.10.18.10.10.10	0.00
TOTAL MONTHLY 0.40 7.92, 36.04, 44, 20, 20, 30, 45, 20, 05	.111.10.10.10.10.10.10.10.10.10	00.00
0.40 7.92, 36, 04, 44, 20, 20, 20, 30, 45, 20, 05	. 29.20	20.20.20.20.200.60
		0.20.20.20.202.28
FAC MANUFACTURER NAME PRODUCTION RATES NAME PROCUREMENT LEAD NO. 1 OCA DETON NAME NAME NAME NAME NAME NAME NAME NAM	PROCUREMENT I ADMIN LEADTINE	
PVROTECHNICS SPEC GA 0.00 0.23 0.55 0	PRIOR AFTER 1 OCT 1 OCT	
ACTION MFG, PA 0.00 0.20 0.45	6 11	
	6 5	
		I TIM MITTIONS

YMBoL	E74200	>: ا	EHP	sep R	1.68																					<u></u>		202.28				5110	Olas.
REQUIREMENTS CONTROL SYMBOL DD-CCMP (AR) 1092	ы			JUL. AUG S		+			+		+													+				20.20.				PROTTITE NI	100111
MENTS (AR) 1				N C							1	-			1								-	+			11	20.20					
REQUIRE DD -CCMP			66	AFR MAY							_	_		$\pm$					$\frac{1}{2}$									707				OUANTITY	
			CALENDAR YEAR	FEB MAR	+	+	H	+			+	-		-	+			-	+		-		+	+		+		. 29				0	
97		YEAR 99	CALEN	JAN		1					1	1		1		1			1	1						1		5					
RY 1997		FISCAL		NOV DEC		$\pm$					$\pm$								1	$\perp$		$\perp$					1	1.10.10					
FEBRUARY		드		SEP OCT	+	+	$\left\  \cdot \right\ $	_	$\vdash$		+			1		+			-	+	H	+			$\dashv$	-	;	<u> </u>					
DATE				JUL AUG		1	Н	1			Ŧ	H		1	1	-			1	-		1	1		4	-	-	N- 1 N	REMARKS				AGES
	E		86	JOS											1	1		$\exists$	1									101.101.101.101.101.101.	<u>~</u>	OCT			29 PAGES
	NOMENCLATURE PRACTICE M781			APR MAY				$\frac{1}{1}$							+				$\frac{1}{2}$			+	+				7	17.07.	ΑE	AFTER 1 0	19	18	O.F.
	MENCI	86	CALENDAR YEAR	FEB MAR	+	+	$\left  \cdot \right $		$\perp$	$\parallel$	+			+	+	+	H	$\perp$	+	-		$\downarrow$					1	177	D TIME				77
_	ITEM NC 40MM PR	YEA	CALEN	DEC JAN	$\Box$	-	П		$\vdash$	H				1	1				1	1		1	1	<u> </u>		-		N. 10	T LEZ	PROI	<u></u>	13	PAGE NO.
P-21	P-1 ITEM NOMENCLATUR CTG 40MM PRACTICE M781	FISCAL YEAR		NOV				1		1		L		1	1	L			#	_		$\downarrow$	1				5	7 101 1	REMEN	AFTER 1 OCT	11	2	
1	<u>a</u> 0	দ		SEP OCT		1		1											$\pm$	$\perp$		$\pm$				$\perp$	-	30. 43. 20. 20. 12. 12. 10. 18. 10. 10. 10.	PROCUREMENT LEAD	PRIOR 1 OCT	9	9	5. IZ
(EXHIBIT				JUL AUG	H	+				H	+		-	+	+	╁			+	╀	$\ \cdot\ $	+	+	-	+	+	1 5	77 · ICO			TNITTAL	REORDER	P-1 LINE NO. IZ
ŀ			6	HAY JUN		-		+			-			$\perp$	Ŧ	-	П			$\bot$		-	-	$\vdash$			5	10 7 · C 10	Ц		Z 	RE	P-1
OULE			8	APR				_	$\blacksquare$		1			1	1					+			+			1			OF SHE	ivo v		NA	
SCHEDU	ITION	4R 97	CALENDAR YEAR	JAN FEB MAR		$\perp$		$\perp$			1			$\downarrow$	1				1	1		$\downarrow$	1			1		1.401.4	ES MON	0.55.0	1 1	NA	
	Y 1. AMMUNITION	L YE		DEC				$\pm$		1	$\perp$			$\pm$	$\pm$				1	$\pm$							3	7.15.5	N RAT	NAX C			
CTI	1.	FISC	96	OCT NOV	$\vdash$		$\parallel$	+		+	+			+	+	╁	$ \cdot $	-	+	+	H	+	+		$\dashv$	+		30,04	CTIO	1-8-5	1 1	NA	
PRODUCTION	TIVIT	BAL	AS OF	_	1.68																						1	0.40   / . 32, 35, 04, 44, 20, 20, 20,	PRODUCTION RATES ROWTHS TO HINIMUM!	SUST.	00.0	Æ	
H	IVITY MY/AC	ACCEP. PRIOR	2 to	96	0.00			1			_				_	$oxed{\bot}$				$\downarrow$		1	1			1	;	10.40			5		
	I ACT N, AR	QTY		Y FY	+	$\perp$	$\perp$	_	$\perp \mid$	_	_			4	+	_	Ц		$\downarrow$	$\downarrow$	$\prod$	4	$\bot$		$\sqcup$	+			MANUFACTURER NAME	NO.			
	SUDGE' UNITIC	PROGRAM QTY		FY FY 97 98		+	$\dashv$	+	H	$\dashv$	+		H	+	+		H	$\dashv$	+	+	H	+	+		$\dashv$	-	TOTAL MONTHLY	CTION	CTUR	DVPOTFCHNICS CDFC	ACTION MFG, PA	TO BE SELECTED	
	ION/E	PR		FY 1										$\downarrow$	1				1	1			1					PRODU	ANUF	A LICE	NOI.	BE SE	
	PPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY	ខ្លួ		>	ALL						1			_	$\perp$	L			1				1	_					-	ă	ACI	일	
	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACT	FAC																											FAC	<u>-</u>	1 7	n	

Ì

1997  CAL YEAR  O2  CALENDAR YEAR  O DEC JAN FEB MAR		
Correction of the control of the c	0 INITIAL 6 11 8 19 NA REORDER 6 5 13 18	

21)		FISCAL YEAR	UU CALENDAR YEAR 01 CALENDAR YEAR 02	OUT AND SEE OUT NOW DEC JAM FEB MAR AFR MAY JUN JUL ANG SEP OCT NOW DEC JAM FEB MAR AFR MAY JUN JUL ANG GET	0.20.20.20.19 0.00											0.00	PROCUREMENT LEAD TIME REMARKS ADMIN LEADING LEAD TIME	PRIOR AFTER 1 OCT 1 OCT AFTER 1 OCT	INITIAL 6 11 8 19	REORDER 6 5 13 18 OUANTITY IN MILLIONS	- 1
P-21)	IVITY 1. AMMUNITION   P-1 ITEM   CTG 40MM	FISCAL YEAR 01	V FY FY FY FY TOCT 1 OCT 1 OCT 100 DEC JAN FEB MAR ARB MAR JAN JAN BED COT MAR 100 DEC JAN FEB MAR ARB MAR JAN JAN BAN COT MAR LOCK MAR LO	96P 97 98 99 99 99 99 99 99 99 99 99 99 99 99	2											PROBUCTION 15. 04 [2.28.20]. 20. 20	NOTICE TO THE PROCUREMENT LEAD TIME INDIVIDUAL INDIVIDU	PYROTECHNICS SPEC, GA 0.00 0.23 0.55 0 1 OCT 1 OCT 1 OCT AFTER 1	0.00 0.20 0.45 0 INITIAL 6 11 8	TO BE SELECTED NA NA NA REORDER 6 5 13	

P-1 LINE NO. 12 PAGE NO. 29 OF 29 PAGES

1

	BUDGET ITEM JUSTIFICATION RECORD	USTIFICATION F	RECORD		DATE: February 1997	1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTIVITY: IN, ARMY/ACTIVII	FY 1. AMMUNITIC	NC	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 60MM, 1/10 F	VCLATURE: 30MM, 1/10 PRA	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 60MM, 1/10 PRAC, M766 (E72000)		
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY (THOUSANDS)	2	8	0	2	4	0	0	0
COST (IN MILLIONS)	\$3.6	\$5.2	\$0.0	\$2.7	\$4.0	\$0.0	\$0.0	\$0.0

## DESCRIPTION:

will be accomplished by replacing the fuze, the obturating ring, range adjustment plugs, the ignition cartridge, dud plugs, and the breech plug. standard High Explosive (HE) rounds used in the 60mm mortar training strategy. It consists of an M779 point detonating practice fuze which provides flash, bang and smoke; a steel body which approximates the shape of the 60mm HE service round; and an ignition The round is designed to be used at least 25 times (i.e., original firing plus 24 refurbishments). This item is code A: It has been cartridge which provides the limited propulsion requirement. After firing, the round is retrieved and refurbished. Refurbishment The M766 60mm mortar cartridge is a low-cost, short range, refurbishable practice round that will replace a majority of the ype classified and has been approved for service use.

## JUSTIFICATION:

full range service rounds. The FY99 procurement supports annual peacetime training requirements and build toward authorized This is a training-unique item; not used in combat. Use of the M766 will reduce training costs and environmental impacts while expanding the training environment by allowing soldiers to train in locations other than full ranges or ranges used for firing depot level for training unique ammunition.

Type classification date: JUN 93 Acquisition manager: PM MORTARS

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 13 PAGE NO. 1 of 5

Exhibit P-40

APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTG, MORTAR, 60MM, 1/10 PRAC, M766 (E72000)	ELEMENT OF COST	QTY UNIT TOTAL QTY UNIT TOTAL QTY (EA) COST (EA) (EA)	36 82.53 633 34 18.09 3,329	SUBTOTAL 2,471 3,962	PROCUREMENT SUPPORT	ENGINEERING SUPPORT         861         975           QUALITY ASSURANCE         217         228           PROOF & ACCEPTANCE         32         49           INTERIM TRANSPORTATION         0         0	SUBTOTAL 1,110 1,252	NON-RECURRING COSTS	TOTAL P-1 LINE ITEM 738.50 3,581 680.15 5,214	
		QTY = 0	UNIT TOTAL			<del> </del>			·	 	
DATE	February 1997	FY99	QTY (FA)	2,490							
	1997	QTY =	UNIT	86.22						1075.10	
		2,490	TOTAL	215	1,345		1,043 238 51 0	1 332	3	2,677	<u>;</u>

.

	BUDGET PROCUREMENT HISTORY AND PLANNING	HISTORY AND P	LANNING		DATE:	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	FIVITY: , ARMY/ACTIVITY 1. AMMUN	NOILIN		P-1 ITEM !	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 6	IOMENCLATURE: CTG, MORTAR, 60MM, 1/10 PRAC, M766 (E72000)	C, M766 (E720	(00)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. COMPLETE ROUND FY96	UNKNOWN	TQO	TACOM	Mar 97	Nov 98	4,849	81.39			
FY97	UNKNOWN	ОРТ	TACOM	Mar 97	Apr 99	2,666	82.53	YES	O <sub>N</sub>	
FY99	UNKNOWN	C/FP	TACOM	Mar 99	Jun 00	2,490	86.22		O <sub>Z</sub>	
2. REFURBISH KITS FY96	UNKNOWN	TAO	TACOM	Mar 97	Nov 98	116,376	17.84			
FY97	UNKNOWN	OPT	TACOM	Mar 97	Apr 99	183,984	18.09	YES	O N	
FY99	UNKNOWN	C/FP	TACOM	Mar 99	Jun 00	99,760	18.90		O <sub>N</sub>	
									•	
			_		di					
REMARKS:										

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 13

Award of FY95 contract with FY96 option delayed pending successful completion of first article test on initial (FY93) contract. FY96 and FY97 requirements will be awarded at the same time as FY95 basic contract.

Page 3 of 5 Pages EXHIBIT P-5A

						g R	PRODUCTION SCHEDULE (EXHIBIT P-21)	NO	SCHI	EDUL	רפ (	EXH	181	P-21	_																		February 1997	ry 1997		DD-COMP (AR) 1092	DD-COMP (AR) 1092	R) 1092		
PPRC	JREM!	APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY	JDGET A	ACTIVITY ON, ARM	r: IY/ACTIN	WTY 1. A!	APPROPRIATIONBUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	7										اقاق	TG, MG	P-1 ITEM NOMENCLATURE CTG. MORTAR, 80MM, 1/10 PRAC, M766 (E72000)	NCLATT BOMM, 1	URE 1/10 PR	AC, M7	88 (E7;	2000)						1					_	į			
# 4	¥ 5	σш	PROGR	PROGRAM QUANTITY	INTITY	¥	ACCEPT BALANCE		SCAL	FISCAL YEAR 97	87							1	T.	FISCAL YEAR 98	EAR 98									FISCAL YEAR 99	YEAR	66 ~								<del></del>
		<u>ځ</u>	£	2	2	<u>a</u>	PRIOR DUE AS TO OF 1 OCT	S Z			CAL	CALENDAR YEAR 97	R YEA	R 97					-			CALEN	CALENDAR YEAR 98	EAR 96					1			3	CALENDAR YEAR 99	R YEA	R 99					_
z (		8							F K	OCT NOV DEC	C	100	3 MAR	FEB MAR APR	MAY	N N	JUL	AUG	SEP OC	OCT NOV	DEC	NA.	FEB MAR	AR AF	APR MAY	ND,	77	AUG	SEP	OCT	NOV D	DEC	JAN FE	FEB MAR	APR	MAY	NOL	JUL	AUG SEP	LATER
+	+	È	-	8	2	+	8	+	+	+	$\downarrow$	1	1		I	$\dagger$	$\dagger$	+	+	+	1	_	+	+	+	4	4			1	$\dashv$	+	-	_				_	-	
ļ-	1	6			t	F	6	+	+	+	$\downarrow$	1	1	-	Ŀ	1	†-	+,	-	4		+	+	+	+	+	$\downarrow$		1	+	$\dagger$		+	1			1	+	+	
2	•	<u> </u>				Ľ	$\vdash$	H	-	-	igdash	L		Ĺ		,	+	+	+-	_		T	+	+	+	$\downarrow$	1		1	$\dagger$	$\dagger$	+	+	4			1	+	+	٥
Н	•	<u> </u>				ľ	├	$\vdash$	$\vdash$	-	+	L	L	Ĺ		t	t	+	+	$\downarrow$	I	-	+	+	+	1			-	-	+	+	+	1			†	+	4	
2	•	٧	80		<del> -</del>	Ľ	H	-	$\vdash$	L	$\vdash$	-	L	Ĺ			t	H	+	-	L	T	+	+	+	1	1		T	$\dagger$	+	+	-	1			1	+	+	
2	•	٧						-	L	-	$\vdash$		L	Ĺ		T	$\dagger$	-	+	-	I		+	+	+	-	1		$\dagger$	+	t	+	+	1	-	-	+	-	2 2	0
~	•	4			2	-	0 2	-	H	L	_	L	L	Ĺ			H	-	$\vdash$	_	I		+	+	+	-	1		T	$\dagger$	$\dagger$	+	+	1			$\dagger$	$^{+}$	$\downarrow$	
$\dashv$	+	_			+			Н	$\vdash$	Н	Ц	Ц	Щ	Ц			$\vdash$	-	$\vdash$	L		-	+	╁	-	_	L		T	t	╁	+	+	$\downarrow$		I	+	$\dagger$	+	2
+	$\dashv$	4				-		4	_							_	-	$\vdash$	<u> </u>	L		$\vdash$	-	$\vdash$		L	L		T		╁	╁	╀	$\perp$	L	Ī	İ	+	+	
+	$\dashv$	_						Н	Н	Ц	Ц	L	Ц	$\prod$				$\vdash$	$\vdash$	_		İ	$\vdash$	$\vdash$	+	L	L			$\dagger$	╁	+	+	1	I		+	+	$\downarrow$	$\perp$
$\dashv$	$\dashv$	4			1	$\dashv$		$\dashv$	- }									-	$\vdash$	L		$\vdash$	+	-	-	L				$\dagger$	+	╁	-	$\downarrow$				+	1	_
+	+	-			$\dashv$	-		$\dashv$	$\dashv$	4	_					$\exists$	Н	Н	H				-	-	-	_	L		T	-	╁	+	$\vdash$	_	I			+	+	$\perp$
+	+	+	$\prod$		$\dagger$	1	+	+	+	4	4	$\downarrow$	_			1	$\dashv$	$\dashv$	-	4		H	Н	Щ	_	L	L			-	┝	<u> </u>		L				1	ļ_	
$^{+}$	+	+	I		$\dagger$	+	+	+	+	$\downarrow$	4	4	$\downarrow$	$\int$		+	$\dagger$	+	+				$\dashv$	$\dashv$								Н	Ц				-	H		
+	+	$\downarrow$	T	1	$\dagger$	+	+	+	+	+	4	1	1	$\int$		$\dagger$	+	+	+	_	1	+	+	+	+	4	$\prod$			+	-	-					H	_	_	L
+	+	+	I		$\dagger$	+	+	+	+	+	+	1		I	1	+	+	+	+	4		+	+	+	+	4	$\int$			$\dagger$	+	+	+	_			1	H		
+-	$\vdash$	-	L		t	-	-	+	+	1	$\downarrow$	1	1		T	$\dagger$	+	+	+	1	I	+	+	+	+	1			+	$\dagger$	+	+	$\perp$				+	+	-	
1-	-				┢			$\vdash$	$\vdash$	+	$\perp$	L	L			-	+	+	+	_		$\dagger$	+	+	+	-			+	$\dagger$	+	+	+	1			+	+	4	
$\vdash$	Н	Ц				L		-	┞	_	_		L			T	-	+	$\vdash$	L		$\dagger$	+	+	$\perp$	1			T	$\dagger$	+	+	1	1		Ì	†	+	1	
Ę	REFURB. KITS	ITS			Н	Н		L	H	L	L		L			H	$\vdash$	+	H	L		1	$\vdash$	$\vdash$	$\perp$				T		+	╁	+	1			$\dagger$	+	-	
ᅱ	•	A 152			$\dashv$	٥	152	H	Ц	Ц	Ц		Ц	21	21	22	22 2	22 22	2 22	L		-	}	-	-	L	L	L	T	-	╁	╁	-	_			+	+	+	
+	-	A 44			1	٥	44	-	$\dashv$	4	Щ					-		-	L	L			_	L	_	_			9	25	H	╁	-	Ļ			t	+		١
+	-+	A 116	_		+	٥	118	_	4	4	_	$\perp$				$\dashv$	$\dashv$		Н			Н	Н	L		L			-	╄	25	25 25	25	2			╁	+	-	9 6
+		V	184		+	-	± 48	_	_		_					$\dashv$	$\dashv$	H	Ц			Н		_	_					-	₩	┿	+-	-	3,5	5	,	200	+	١
+		V			+	0	+	+	-	4	4	$\perp$	$\prod$			+	+	$\dashv$	Ц			H	Н	Н	Ц					-	$\vdash$	+	$\perp$	,	2	3	+	-	S .	9
~	•	<		1	8	٩	8	+	+	$\downarrow$	1				+	+	+	+	4	$\prod$		+	$\dashv$	+	-				Н	$\vdash$		Н	L	L		<u> </u>	-	-	1	9
$\dashv$	$\dashv$	-		]	ا: ا	+	+	+	+	4	4	$\int$			$\dagger$	+	+	+	+	1		+	+	+	4	1			1	+	$\dashv$							-		
				D Ola	Production									•	•		<u> </u>		_	_										_										
			-			-	-	-	-	1				]	1	-	4	-	┨			-	-	-	1				-	-		-	-	-	-	-	-	1 2	2	2
<u> </u>	243	H	100	Takani Garati Italia							ļ.			_		L									г	_			ı											
. ź	ن ک			ACTORERS ALOCATION	2 V MAN	<u> </u>	PRO	PRODUCTION KALES	CHON KALES			Months to	2 :					)  -  -	KEME	PROCUREMENT LEAD TIME (MONTHS)	I I	MOM	L		_		REMARKS	RKS												
	,		,			=	Sust	<u>.</u>	Ē			after D day	fay					BE	BEFORE	FORE AFTER	u cr	PROD		AFTER	-		FY96 hreak	FY96 & FY97 option break in production	option	FY96 & FY97 options will be produced without break in production	produ	ced wi	hout							
	-	POCA	LINDUS	POCAL INDUSTRIES, PA.	Æ		-	2	L.	3	Ц							_	I OCT		_ 5			- OCT				Ĺ												
_	,	NACNANI	NAC			L	-	ľ	L	,	L					_	INITIAL	L		Ľ	-	:	Ľ	١,	Т		_													

\*Quantity in thousands.

18 24

INITIAL 6 REORDER 3

UNKNOWN

AMSMC FORM 966, 1 JUN 85

P-1 LINE NO. 13 PAGE NO. 4 OF 5 PAGES

Companient interpretation contains the contains the contains of the contains	FIGUR VAR TO   FIGURE VAR TO	FIGUR. VEAR 00   FIGUR. VEAR 01   FIGUR. VEAR 02   FIGUR. VEAR 03   FIGUR. VEAR 04   FIGUR. VEAR 04   FIGUR. VEAR 04   FIGUR. VEAR 04   FIGUR. VEAR 04   FIGUR. VEAR 04   FIGUR. VEAR 05   FIGUR. VEAR 05   FIGUR. VEAR 06   FIGUR. VEAR 06   FIGUR. VEAR 06   FIGUR. VEAR 06   FIGUR. VEAR 07   FIGUR. VEAR 07   FIGUR. VEAR 07   FIGUR. VEAR 08   FIGU
THEOLAL YEAR RO	College and Fee and Area (Area (College)   Frequence (College)	College and Fee and Fee and And And And And And And And And And A
OCT NOV DEC JAN FEB MAR AFR MAY JAN JAL AND SEP OCT NOV DEC JAN FEB MAR JAN JAN JAN JAN JAN JAN JAN JAN JAN JAN	Out the Name of the Column of	CALEBOAR YEAR RO   CALEBOAR YE
20   NOV   DEC JAN   FEB   MAR   ARN   JUN   JUL   ANG   SEP   OCT   NOV   DEC JAN   FEB   MAR   ARN	2 O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OCI NOV DEC JAN FEB MAR APR MAY JUN JUN JUN LALL ALD SEP OCT NOV DEC JAN FEB MAR APP MAY JUN JUN LALL ALD SEP OCT NOV DEC JAN FEB MAR APP MAY JUN JUN LALL ALD SEP OCT NOV DEC JAN FEB MAR APP MAY JUN JUN LALL ALD SEP OCT NOV DEC JAN FEB MAR APP MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	0 C I NOV DEC JAN FEB MAR APPR MAY JAN JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FEB MAR APPR MAY JAL MAG SEP OCT NOV DEC JAN FE	Oct Nov Nece May Real May Are
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
00 30 30 30 30 30 30 30 30 30 30 30 30 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 60 11 1
09	60 80 30 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 60 70 30 30 70 70 70 70 70 70 70 70 70 70 70 70 70
90 30	2	2
		7 1
	2	
Months to PROCUREMENT I EAT TIME AUNTHOL	Months to	
2	AODICTION RATES Months to PROCUREMENT LEAD TIME (MONTHS)  1.8.5 Maximum reach max ADMIN LEAD TIME TOTAL	1.8.5 Maximum reach max ADMIN LEAD TIME TOTAL
2	RODUCTION RATES Months to PROCUREMENT LEAD TIME (MONTHS)  1.8.5 Maximum reach max ADMIN LEAD TIME  1.8.5 Maximum reach max  1.8.5 Maximum reach max  1.8.5 Maximum Reach ma	1.9.5 Maximum reach max ADMINLEAD TIME TOTAL BEFORE AFTER PROD AFTER

INITIAL

1 POCAL INDUSTRIES, PA. 2 UNKNOWN

\*Quantity in thousands.

	BUDGET ITEM J	BUDGET ITEM JUSTIFICATION RECORD	RECORD		DATE: February 1997	1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTIVITY: N, ARMY/ACTIVI	TY 1. AMMUNITIC	NC	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 60MM, ILLUN	NCLATURE: 60MM, ILLUM, MT	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 60MM, ILLUM, M721/XM767 (E70400)	(001	
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY (THOUSANDS)	52	28	0	0	0	0	O	0
COST (IN MILLIONS)	\$22.4	\$13.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

### DESCRIPTION:

both white light and Infrared Illuminant. This Item is Code A; it is Type Classified (TC) and has been approved for service use. at the same effective range as the companion High Explosive (HE) Cartridges, M720 (Range 3,200-3,800 Meters Maximum). The 60MM Mortar Illuminating cartridge is designed for use with the M224 lightweight company mortar system (LWCMS) This is triple the range of the ammunition it replaces. The HE and Illum Cartridges are ballistically similar, thus allowing in all light infantry battalions including Airborne, Air Assault and Ranger. The M721 will provide illuminating capability a gun to illuminate and fire on the same target without adjustments. The FY96 and FY97 Procurements will include

## JUSTIFICATION:

of fielded Mortar Weapons. Impact of failure to procure will be continued reliance upon the old 60MM Illumination Round, The FY97 procurement meets the annual peacetime training requirements and builds a war reserve stockpile in support thus forfeiting the benefit of the M721's increased range which contributes to troop survivability.

Type classification date: white light SEP 87; infrared MAR 97 Acquisition manager: PM MORTARS

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 14

Page 1 of 6 Pages Exhibit P-40

PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION										Coldania -	1001	
CTG, MORTAR, 60MM, ILLUM, M721/XM767 (E70400)	1/XM767 (E70	400)			1310-01-25	1310-01-258-8689 (B647)				i		
EI EMENT OF COST	FY96	QTY =	52,076	FY97	QTY =	27,580	FY98	QTY =	0	FY99	QTY =	0
	QTY (EA)	UNIT	TOTAL	QTY (EA)	COST	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL
HARDWARE									<u>.</u>			
	19,366	165.00 205.23	3,195 6,713	19,790	161.27 200.59	1,256 3,970						
3. PROP CHG M204 4. IGN CTG M702 6. PLUZE, M776 MTSQ 6. PLUZE, M776 MTSQ	54,159 54,159 54,159	11.06 124.06 4.66	6,719 6,719 752	28,683	13.01 126.77 6.23	3,636 179			<u></u>			
		3	1									
SUBTOTAL			18,875			686'6						
PROCUREMENT SUPPORT												
1. ENGINEERING SUPPORT 2. QUALITY ASSURANCE 3. PROOF & ACCEPTANCE 4. INTERIM TRANSPORTATION			1,007 526 302 82			1,995 360 169 54						
SUBTOTAL			1,917			2,578						
NON-RECURRING COSTS								****				
1. FIRST ARTICLE/IPT 2. Calibration Lot			1,586			572						
SUBTOTAL			1,586			572		······································				
TOTAL P-1 LINE ITEM		429.72	22,378		476.40	13,139				-		
00 0114 0770												

	BUDGET PROCUREMENT HI	HISTORY AND PLANNING	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	FIVITY: ARMY/ACTIVITY 1. AMMUN	NOILI		P-1 ITEM	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 6	IOMENCLATURE: CTG, MORTAR, 60MM, ILLUM, M721/XM767 (E70400)	721/XM767 (E.	70400)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
<u>1. CTG.M721.LAP</u> FY96	PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	TACOM	Sep 96	Mar 98	19,366	165.00	YES	9	
FY97	PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	TACOM	Mar 97	Oct 98	7,790	161.27	YES	9	
2. CTG.XM767,LAP FY96	PINE BLUFF ARSENAL	SS/FP	TACOM	Sep 96	Jun 98	32,710	205.23	Q.	YES	Mar 97
FY97	PINE BLUFF, AR PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	TACOM	Mar 97	Sep 98	19,790	200.59	O <sub>N</sub>	YES	Mar 97
3. PROP CHG M204 FY96	LOCKHEED MARTIN (MILAN AAP)	SS/CPAF	201	Jun 96	76 luf	216,636	6.45	YES	ON	
3A. PROP CHG M204A1 FY97	UNKNOWN	C/FP	TACOM	Jun 97	Mar 98	114,733	5.01		ON	
4. IGN CTG M702 FY96	LOCKHEED MARTIN (MILAN AAP)	SS/CPAF	<u>0</u>	Sep 96	Mar 97	54,159	11.06	YES	ON	
FY97	MILAN, TN UNKNOWN	C/FP	TACOM	Jun 97	Mar 98	28,683	13.01		ON	
PEMADOK C.										
Pine Bluff Arsenal is a government owned / government operated Work is performed through work orders, not contracts.	it owned / government operate	ed (GOGO) facilities.	ý							

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 14

Page 3 of 6 Pages EXHIBIT P-5A

	BUDGET PROCUREMENT HISTORY AND PLANNING	HISTORY AND P	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IVITY: ARMY/ACTIVITY 1. AMMUN	NOIL		P-1 ITEM N	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 6	OMENCLATURE: CTG, MORTAR, 60MM, ILLUM, M721/XM767 (E70400)	721/XM767 (E:	70400)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
5. FUZE, M776 MTSQ FY96	DIEHL GMBH	SS/FP	00	Jul 96	Jan 97	23,978	0.00	YES	Q.	
FY96	DIEHL GMBH	OPT	200	Sep 96	Mar 97	30,181	0.00	YES	Q Q	
FY97	SCHKAMBERG, GER DIEHL GMBH	OPT	00	Mar 97	Sep 97	24,245	0.00	YES	ON.	
FY97	SCHRAMBERG, GER SCHRAMBERG, GER	SS/FP	TACOM	Jun 97	Nov 97	4,438	00.	YES	O <sub>N</sub>	
6. FIN M27 FY96 FY97	WILKINSON MFG CO Ft CALHOUN NE UNKNOWN	C/FP C/FP	IOC	Sep 96 May 97	Mar 97 Nov 97	54,159 28,683	6.23	YES	O O	
REMARKS: Sole source to Diehl due to expertise and non-availability of a U.S	rtise and non-availability of a l	U.S. produced mortar time fuze.	rtar time fuze.							

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 14

Page 4 of 6 Pages EXHIBIT P-5A

				PROL	PRODUCTION SCHEDULE (EXHIBIT P.21)	N SCHE	DULE	я (E)	E X	.d F	21)																	DATE		February 1997	166	<u> </u>	aure COMP	REQUIREMENTS CO DD-COMP (AR) 1092	REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	ROL S	YMBOL
APPROPF PROCURE	RIATION	APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY	APROPRIATIONBUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMI	UNITION										P-1 IT CTG, I	EM NO WORTA	MENCL IR, 60M	P-1 ITEM NOMENCLATURE CTG, MORTAR, 80MM, ILLUM, M721/XM787 (E70400)	JAN, M72	TWXII	87 (E70	1400)															
A UM		PROGE	PROGRAM QUANTITY	ACCEPT	T BALANCE	FISCAL YEAR 97	EAR 97									FISCAL	FISCAL YEAR 98	8								FISC	AL YE	FISCAL YEAR 99									
υ	α >	<u>}</u>		Rion of	DUE AS			CALE	CALENDAR YEAR 97	EAR 8					1			₹ S	CALENDAR YEAR 98	R YEAR	88					-			CALER	IDAR Y	CALENDAR YEAR 99						
2 0						OCT NOV DEC	V DEC	JAN	JAN FEB MAR APR	AAR A	PR W	MAY JUN	N JUL	AUG	SEP	OCT.	NOV DE	DEC JAN	Z FEB	MAR	FEB MAR APR MAY		N N	JUL AL	AUG SEP	РОСТ	NOV	DEC	JAN	FEB N	MAR APR	PR MAY	NO JUN	) ]	AUG	SEP	LATER
	Ħ	$\vdash$	₩		8			I	T	+	+	$\perp$	$\downarrow$			t	+	+	$\downarrow$			T	+	+	-	+					$\dashv$	+	+	1			İ
$\dashv$	4	25		٥	25		П		H	H	=	14		L		T	+	+	+			İ	t	+	+	1				+	+	+	+	_			•
•	4	19		٥	19					$\dashv$	Н	L				T	-	-	Ļ	15	4			+	╀	$oldsymbol{\downarrow}$	1		T	$\dagger$	+	+	+	1	I		9
+	∢	8		٥	33		Ţ		+	H	Н	H	Ц	Ц		П	Н	Н	-				15	15	3	-		L		+	+	╀	+	-			9 0
• •	-	8		0	8	1	Ţ		$\dagger$	+	+	+	4	$\int$		$\dashv$	$\dashv$	$\sqcup$	$\sqcup$	Ц		H		┦	H	60					H	-		-			0
-	<	8		•	82		T		+	+	+	+	+	$\int$		$\dagger$	+		$\downarrow$	$\int$		_	$\dagger$	+	5	ro.				$\vdash$		$\dashv$					
-	M	81		8	-	L	L			†-	+	-	1	L	I	+	+	$\dotplus$	+			T	$\dagger$	+	+	+	1		1	$\dagger$	+	+	$\downarrow$	4		1	
							Ц		Н	H	-	-	L	Ĺ			+	+	1				t	+	+	1	1			$\dagger$	+	+	+	_			
+	≩	17		٥	17				$\dashv$	3 1	10 4	Ц	Ц	Ц			-	_	L	Ĺ		T	┢	╁	-		L			+	+	+	-	_		Ī	1
+	≩	6		0	6	-	1			+	$\dashv$	$\sqcup$	Ц	Ц		H	Н	Н	$\sqcup$		6	П		H	H		L			-	+	1	<del> </del>	-	L		
+	$\overline{}$	-		-	,		1		+	$\dashv$	$\dashv$	4	_	$\rfloor$	_	$\dashv$	+	_	_				_			2	2					L	L			Ī	0
•   • <del>-</del>   •	≩ :			0	0	1	$\downarrow$		$\dagger$	+	+	4	_	$oxed{J}$		$\dagger$	+	+													-		H	Ļ			0
-	_		13	-	13		$\perp$		+	+	+	+	1	$\prod$	1	$\dagger$	+	+	1			$\top$	+	+	+		_			7	-						13
-	ş	16		0	18		T		+	1=	ur.	+	$\downarrow$		1	$\dagger$	+	+	1	I		+	+	+	+	_	1			+	+	+	+	4			
									_	-	-	$\vdash$	1		İ	t	+	$\perp$	-	I		$\dagger$	+	+	+	1	$\perp$		T	$\dagger$	+	+	$\downarrow$	1		1	٥
-	¥	139		8	59		Ц			15 15	5 15	- -	L		T	-	$\vdash$	$\perp$	-		I	-	+	+	1	$\perp$	$\perp$		T	$\dagger$	+	+	$\downarrow$	1			'
-	¥	61		٥	94					-	H	L	_			$\vdash$	$\vdash$	-	L	15	5		5	5.	$\perp$	L		L	T	+	+	+	+	1			9
-+		35		٥	35				$\forall$	$\dashv$	Н		Ц	Ц		H	H	Н	Ц				+		15	5	2			H	+	$\perp$	+	$\perp$			
- -		+	1	-	0		1		+	+	+	4	4	floor	_	+	+	4	$\downarrow$			H	1	Н	$\mathbb{H}$	$\vdash$	-				$\vdash$	H	-	_		T	0
-	¥		2	•	13	$\frac{1}{1}$	ightharpoons	T	+	+	+	4	_	I	+	+	+	+	4			$\dagger$	$\dagger$	+	$\dashv$	4					$\parallel$						13
M778 FUZE	ZE					$\frac{1}{1}$		İ	$\dagger$	+	+	+	$\downarrow$	Ι	+	+	+	+	1			$\dagger$	+	+		_				+	-	+	4				
	¥	145		145	۰		П		H	Н	Н	Н	Ц				$\vdash$	-	L			T	+	+	1	$\perp$			$\dagger$	+	+	+	$\downarrow$	1	I	+	
+	핗	63		٥	8			12	12	12 12	2 12	က			Ħ	H	Н	Ц	Ц			H		-	-	L			T	+	$\vdash$	-	ļ.,	1		T	0
		28		٥	28	+	1	_	+	+	+	4	$\perp$		₽	위	8	4			_	$\parallel$	+	$\dashv$								-	-			Ť	0
	1 1		\$	9	9	-		T	+	+	+	$\downarrow$	1		$\dagger$	+	+	$\downarrow$	1		Ť	+	+	+	4				1	$\dashv$	-						0
			Total Monthly	+	2	$\vdash$		T	+	╁	+	_			†	+-	+	-	L		1	$\dagger$	+	+	_				Ť	+	+	4	_	$\perp$			13
			Production	8	188	$\dashv$			7	15 15	5 15	=			$\dashv$	$\dashv$	$\dashv$	_		55	Ð	$\dashv$	15	15	5	5	5										7
ĺ																																					
FACIL	 پږ	MANUFAC	MANUFACTURER'S NAME		PRODUC	PRODUCTION RATES	ES	Mon	Months to					8	CUREA	ENT	EAD TIN	PROCUREMENT LEAD TIME (MONTHS)	NTHS				2	REMARKS											1		
ġ Ž		<b>4</b> 5	& LOCATION	Win.	Minimum Sust	1.8.5 Maximum	mum.	reac	reach max after D day						ADMIN BEFORE	IN LEA	ADMIN LEAD TIME		PROD	TOTAL	۲ <u>۲</u>			H	de constitue	200	g		DEHL produces for other contents and the	9							
		INE BLUFF.	PINE BLUFF ARSENAL, AR	•		35				Т					- 00	-	- oct	-		- 001	5									500							
7	Т	DIEHL GMBH FRG	FRG	15		30	1			Т			Ē	INITIAL	•	+	9	2		27	Ţ																
1	+			+		$\frac{1}{1}$	1			Т			REORDER		-	$\dashv$		=		⊼	$\neg$		ğ	*Quantities in thousands	in thou	sands											

P-1 LINE NO. 14 PAGE NO. 5 OF 6 PAGES

AMSMC FORM 966, 1 JUN 85

		PRODUCTION SCHEDULE (EXHIBIT P.21)	101101	N N	EDUL	E (E)	XHIB	T P.2	£														<u> </u>	DATE:	February 1997	1997	REQ DD-C	REQUIREMENTS CO DD-COMP (AR) 1092	REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	TROL SY	MBOL
APPROPRIATION/	APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1, AMMUNITION	1. AMMUNI	NOIT									P.11	P-1 ITEM NOMENCLATURE CTG, MORTAR, 80MM, ILLUM, M721XXM787 (E70400)	IENCLAT	TURE ILLUM,	M721XA	A787 (E71	0400)					1								
N A	PROGRAM QUANTITY	ACCEPT	BALANCE		FISCAL YEAR 00								FISCAL	FISCAL YEAR 01	-							FISCAL	FISCAL YEAR 02	02							
α :		PRIOR	DUE AS			CALE	CALENDAR YEAR 00	EAR 00							CALE	CALENDAR YEAR 01	AR 01							CALE	CALENDAR YEAR	'EAR 02					
>	FY FY FY		OF 1 OCT			Γ		+						ļ																	LATER
8 z 0	96P 97 98 99	10cT	8	z D	OCT NOV DEC	NA.	89	MAR	₩ Y	ş	JUL AUG	SEP	OCT	NOV DEC	C JAN FEB		MAR APR	MAY	NON	JUL AUG	3 SEP	DO CT	NOV DEC	SC JAN	FEB	MAR APR	R MAY	NOS.	JUL AUG	SEP	
					Н			Н	Н		-	igspace		+		+	-		+	+		$\dagger$	+	+		+	$\downarrow$		-		
	25	25	0		+	1	$\pm$	+	4		$\dashv$			H		$  \cdot  $	$\left  \cdot \right $						+			+	-	1	-		0
< <	33	33	0	$\pm$	+			+	+	$\perp$	+	Ţ	+	+		+	-	1	+	$\dashv$		$\parallel$	$\dashv$			H					0
1	8	8	0		-		brack	+	$\downarrow$	İ	+	I	+	$\downarrow$	1	+	+	1	$\dagger$	+		+	+	-	1	+		+	+		0
4 ·	20	20	٥		$  \cdot  $	П		Н	$\coprod$		+			1			+	I	$\dagger$	+		$\dagger$	+	1		+	-	+	+		0
		1		$\frac{1}{1}$	+		+	$\dashv$	4		$\dashv$		H	H		H	H						-	<u> </u>		-	_	+	+	İ	
- AC		<b>5</b>	•	$\frac{1}{1}$	+	$\downarrow$	T	+	$\downarrow$	T	+	1	+	4	1	$\dashv$	$\dashv$		$\dashv$	-		H	Н								
1 · NV		1,	٥	$\pm$	+		+	+	1	$\dagger$	+		+	+		+	+	1	+	$\dashv$	$\perp$	$\dagger$	+	4		+					
		0.		$\vdash$	L		$\dagger$	╁	L		+	Γ	$\dagger$	+	1	+	+	1	$\dagger$	+		$\dagger$	+	1		+	-	1	$\perp$		0
- N	8	8	۰		Н		Н	H					-	1		+	+		$\dagger$	+		+	+	1	T	+	_	+	$\downarrow$		٠
· N		0	0				Н	H			-			-		$\vdash$	_		+	-			+	1	$\perp$	+		-	+		
2	13	0	5	+	4	1	+	+	$\downarrow$	+	$\dashv$	7	9	Ц		H	$\sqcup$		Н				+	_		-		+	-		-
1 · NS 16	9	9	-		+		+	+	$oxed{\Box}$	_	+		+	$\downarrow$		+	4		+	+		$\vdash$	$\dashv$			H		H			
				-				-	L		$\vdash$		+	$\downarrow$		+	-	1	+	+		$\dagger$	+	-	1	+	1	+			0
1 . ALL 139	Ď.	139	٥					-		-	1		+	L	T	+	_	T	+	+		+	+	$\downarrow$	$\pm$	+	_	-	1		ĺ
1 . ALL 61		61	0				$\vdash$	Н		Н	Н		$\vdash$	-		+	-		$\vdash$	-		-	+	L	1			+		+	0
•	36	98	٥	+	$\perp$		+	+	$\prod$	+	4		H	Ц		H			H			$\vdash$	$\vdash$	L	$\perp$	$\perp$		-		$\dagger$	0
- ALL		0	٠ ;	+		1	+	+	1	$\dagger$	+	1	+	$\perp$		+	4		+	4		H	H			H					0
L	2		2	+	$\perp$		$\dagger$	+	$oxed{\Box}$	$\dagger$	+	1	<b>6</b>	1	1	+	$\downarrow$	1	+	+		+	+	$\prod$	_	+					0
M776 FUZE				-			+	+		t	+		+	$\perp$		+-	1	İ	+	4		+	+	_	_	+		+	1	1	
· ALL	15	145	٥	$\vdash$			H	H		Н	Н		$\vdash$			$\vdash$	L		+	-		+	+	1	+	+		$\dagger$	1	$\dagger$	
2 . ALL 63		63	0 6	+	-		+	+	Ţ	+	$\dashv$	1	+	Ţ		$\dashv$	$\prod$		H	$\sqcup$		H	H			H		-			0
+-	07	8 0	-	+	1		+	+	Ţ	+	+	1	+	$\int$		+	$\downarrow$		+	+		$\dashv$	-	1	1					-	0
Ŀ	13	0	5 5	-		1	6	+	I	+	+	1	+	$\prod$		+			+	+		+	+	1	+	+	1	_			0
	Total Monthly	a,	\$					_			<u> </u>	,	4			-			+-	_		+	+		+	-		-	-	-	0
		63	2	-			-	-		1	-		•	]		-		]	-	4		$\dashv$	-		$\dashv$	-		_		1	0
FACIL	MANUFACTURER'S NAME		SET AG MOLTOLIGOGO	AG MOIT	1	Mon	Months to	Г		L	00	100	COLLEGE THAT CAR LENGTH COOR					_	L												
	A LOCATION	Minimum		1 a F Maximum	S	2 6	or contract	_		1	=	מינועם אינו	ADMINI EAD TIME		MON	⊢			Œ.	REMARKS											
	-	Sust				after	after D day					BEFORE	E AFTER	E E	PROD		AFTER		0	Project I	ارود اربعو	for oth	, charles	DIEH produces for other constants	9						
1 PINE	PINE BLUFF ARSENAL, AR	8		_	35			Ţ				- OCT	$\dashv$	- oct		-	I OCT		_					200	500						
2 OIE	DIEHL GMBH FRG	55	+	4	8			_		=	INITIAL	6	4		<b>5</b>	2	24														
			$\dagger$	+				T		2	REORDER		-	•	22	7	22		ē	antities l	"Quantities in thousands	sp								_	

P-1 LINE NO. 14 PAGE NO. 8 OF 6 PAGES

AMSMC FORM 966, 1 JUN 85

							DATE
B	BUDGET	ITEM	ງບຣາ	TFICAT	JUSTIFICATION SHEET	BET	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	UDGET ACTIVIT	Y			P-1 ITEM NOMENCLATURE	1ENCLATURE	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	JNITION, ARMY	/ACTIVITY 2.			CTG MORTAR 6	CTG MORTAR 60MM SMOKE WP M722	

1997
FEBRUARY

PROCUREMENT AM	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 2.	ACTIVIT	Y 2.				CTG 1	CTG MORTAR 60MM SMOKE WP M722	MM SMO	KE WP M	722			(E70500)	(
	FY 96		FY 97	7	FY	98	FY	66		FY	00	FŸ	1	ЬŸ	
QUANTITY (THOUSANDS)	-0-		-0-		2	23	'	-0-		-0-		-0-		·· () - / · · ()	
COST (In Millions)	\$ -0-		-0-	₩		4.7	w	-0-	٠	-0-	₩	-0-		\$ .0-7-0	

### DESCRIPTION:

The M722 is assembled with the M745 Point Detonating Fuze which functions The cartridge has an integral burster charge, white phosphorous filler, a thin wall shell, fin assembly, a The M722, 60MM WP Smoke Cartridge is used on the M224 Lightweight Company Mortar System (LWCMS). It provides a smoke four increment M204 propelling charge, and an ignition cartridge. The operating range is from 70 to 3,490 meters. item will be procured through the CAWCF at a fixed standard price. cloud for spotting or marking a target area. on impact.

# JUSTIFICATION:

Mortar, but with greatly reduced weight, and improved portability and ease of handling. FY 98 procurement builds a war The requirements established a need to retain most of the capabilities of the standard 81PM The need for a LWCMS resulted from an operational requirement for a lightweight mortar to enhance the firepower and mobility of small infantry units, and to increase the combat effectiveness of these units in scenarios where manreserve inventory in accordance with the Army's procurement goals. portability is essential.

# TYPE CLASSIFICATION DATE:

September 1991

	٠
2	
092	
7	
æ	
(AR	
10	
MO	
Ų	
吕	
8	
SCS	
į,L,	

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: SEPTSHRER 1996 NSN = 1310-01 336 1354 PCN:P029MID0C4T

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	ACTIVITY ON, ARMY/ACT	IVITY 1.	AMMUNITI	NOI	P-1 CTG	ITEM NOMENCLATURE MORTAR 60MM SMOKE	NCLATURE: MM SMOKE WP	P M722		DATE: NSN = 1	SEPTSPIRER 1310-01 386 (E70500	FR 1996 36 1354 500)
I	FY 96 (QTY		Ŧ (	FY 97 (QTY		) F	FY 98 (QTY		23025)	FY 99 (QTY		
ELEMENT OF COST QM: EACH	УŢQ	UNIT	TOTAL	YTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	ĀĀĀ	UNIT	TVibodi
HARDWARE												
1.LOAD, ASSEMBLE,							30000	r	(			
2. PROJ MPTS 3.FIN ASSY M27						<b>-</b>	23946 23946 23946	15.13 5.48	13621			
4.LAP CHG PROP M204							94403	96.0	6			
M204						<b></b>	94403	1.75	166			
WW GR A (LB)							160	4.04	. <u> </u>			
M702			•••••				23946	8.97	215			
FLANE 3)							185	57.92	11;			
FLANE							1842	9.	36.			
11.DET STAB M61							2417/	بأن				
12.M85 BOKSTER 13.LAP FZ M745 14 FZ MPTS M745							23716	4.57 2.16 30.45	108:			
15.*COMP A-5,			•,				2 t t t t t t t t t t t t t t t t t t t	, t	1,			
16.PBXN-5 TYPE I,						· <b>-</b> · -	١.		,			
,							,	;	- 1			
						<b></b>			4110!			
PRODUCTION SUPPORT												
1. PRODUCTION ENGINEE	RING								420			
3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION	NOTE								471			
5. INDUSTRIAL STOCK S	ÜPPORT					· <b>-</b> ·			145!			

PAGE NO. 2 of 11 P-1 ITEM NO. 15

EXHIBIT P-5

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: SEPTEMBER 1996 NSN = 1310-01 336 1354 (E70500)

PCN: P02QM1D0C45

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

P-1 ITEM NOMENCLATURE: CTG MORTAR 60MM SMOKE WP M722

DATE: SECTION: 1. NSN = 1310-0157 WP M722 (E70)

	FY 96 (QTY	YTQ)		_	FY 97 (QTY	QTY	_	) FY 98 (QTY	(QTY	23	23025) FY 99 (QTY	YTYQ)		
ELEMENT OF COST QM: EACH	Ø.	ŶŢŶ	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	V COST		TOTAL	QPY	UNIT	TOTAL
SUBTOTAL											652			
NONRECURRING														
1.*GOVERNMENT FURNISHED MATERIAL	NISHED MAT	<b>TERIAL</b>		<b></b> -							-3			
SUBTOTAL											-3:			
**************************************	**************************************	* * * * *	***		* * * * * * * *	*****	* * * * * * * * * * * * * * * * * * * *	***	206.68	****	***************************************	*	* * * *	* * * * * * * * * * * * * * * * * * * *
														-

P-1 ITEM NO. 15 PAGE NO.

EXHIBIT P-5

3 of 11

-

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	SEPTEM	DATE: SEPTEMBER 1996	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	$NSN = 1310 - 01 - 236 \cdot 1354$	11-236-1	354	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI	ITY 1. AMMUNIT	TION	CTG MO	RTAR 60MM S	CTG MORTAR 60MM SMOKE WP M722	; ; ; ; ; ; ;	:	(E70500)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	UK YES WHED AVATE
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1998 PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	IOC	DEC 97	SEP 99	23025	83.55	YES		
2. PROJ MPTS FY 1998 TBS	C/FP	IOC	JAN 98	SEP 98	23946	15.13	YES	ON	
3. FIN ASSY M27 FY 1998 TBS	C/FP	IOC	JAN 98	SEP 98	23946	5.48	YES	ON	
4. LAP CHG PROP M204 FY 1998 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 98	OCT 98	94403	96.0	YES	NO	
5. CONTAINER ASSY M204 FY 1998 ARMTEC DEFENSE PROD COACHELLA, CA	SS/FP	IOC	JAN 98	SEP 98	94403	1.75	YES	ON	
REMARKS:	! 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

TBS - To Be Selected

P-1 ITEM NO. 15 PAGE NO.

10. 4 of 11

EXHIBIT P-5A

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	! ! ! ! ! ! ! !	DATE	: SEPTEM	DATE: SEPTEMBER 1996	•
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION. ARMY/ACTIVITY 1	TTV 1 AMMINITY	INO TO	P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-(	1310-01-236-1354	354	1
11) \$	TITOLITIC WILLIAM	I TON	C'I'G MO	RTAR 60MM S	C'I'G MORTAR 60MM SMOKE WP M722	; ; ; ; ; ; ; ;		(E70500)	(00
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	LF YES WHEN AVAIL
6. NITROCELLULOSE WW GR A (LB)FY 1998 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	APR 98	JUL 98	760	4.04	YES	ON	1 1 1 1 1
7. LAP CTG IGN M702 FY 1998 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 98	96 LOO	23946	8.97	YES	NO	
8. M9 FLAKE .006 (LB) FY 1998 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	APR 98	JUL 98	185	57.92	YES	ON	
9. MIO FLAKE .008 (LB) FY 1998 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	APR 98	JUL 98	1842	19.60	YES	NO	
REMARKS:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	

5 of 11 PAGE NO. 15 P-1 ITEM NO.

EXHIBIT P-5A

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: SEPTEMBER 1996	3ER 1996	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310 - 01 - 236 - 1354	1-236-1	35.4	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IVITY 1. AMMUNI	TION	CTG MOI	RTAR 60MM S	MORTAR 60MM SMOKE WP M722		:	(E70500)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQU	TE YES WHEN AVATE
10. DET STAB M61 FY 1998 DAY & ZIMMERMAN TEXARKANA, TX	SS/CPFF	IOC	JAN 98	SEP 98	24177	2.26	YES	ON	
11. DET STAB M55 FY 1998 DAY & ZIMMERMAN TEXARKANA, TX	SS/CPFF	IOC	JAN 98	SEP 98	23716	0.38	YES	MO	
12. M85 BURSTER FY 1998 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 98	OCT 98	23716	4.57	YES	ON	
13. LAP FZ M745 	ss/cpaf	IOC	JAN 98	APR 99	23716	2.16	YES	ON	
REMARKS:							; ; ;		

15 P-1 ITEM NO.

PAGE NO. 6 of 11

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: SEPTEMBER 1996	3ER 1996	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-01-236-1354	1-236-13	5.4	ł
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CTG MO	RTAR 60MM SI	CTG MORTAR 60MM SMOKE WP M722			(E70500)	(00
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	TE YES WHEE AVAIL
14. FZ MPTS M745 **		 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		: : : : : : : : : : : : : : : : : : : :		
FY 1998 TBS	C/FP	IOC	APR 98	MAR 99	23946	39.45 · YES	YES	ON	
15. *COMP A-5, CLASS 1 (LB)									
FY 1998 STOCK ISSUE	N/A	N/A	N/A	N/A	196	N/A	N/A	N/A	
16. PBXN-5 TYPE I, CLASS 3 (LB) FY 1998 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	JAN 98	JUL 98	7	83.06	YES	ON	
REMARKS:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				f f f f f f f f f f f f f f f f f f f	: : : !		

\*\* PACING COMPONENT TBS - To Be Selected P-1 ITEM NO. 15 PAGE NO.

PAGE NO. 7 of 11

EXHIBIT P. 5A

5.

E70500		<u>, ш</u>			00.0	0.00	0 0 0	0.00		000	200	0.00	00.00	4.00	;	00.0	0	00.00	00.0	:	00.0	00.00		. 6	00.00	00.0	15.0	4.00	. 0	^ <sub>1</sub> -					_
E)	i :		4 FS					a				_	:		:	:				,							. B			o.					
;			AUG	: :	•	:					-				;	;	:	,	:	٠.						:	-								
	!		<b>₹</b>	1 ;		;	ı	:							i	i	Ī	-	:			,													
			¥	-		-		-	!	-		_	_		-	,			,	_	_									-					
	i	6	HAY	<del>;     </del>		,	1	-		-					<u> </u>	÷	-		-	<del></del>						-		- ;	+	- ;		لير		_	
<u> </u>	1	99	<u>π</u>	+ +					1 1	-		-			+	+	!			-	<u> </u>	-	<del>; :</del>	· ·	-	<u>.                                    </u>		_:		₹ :		TOTAL	18	18	,
<u> </u>		1717	APR					<u>,                                     </u>		-	1	-	_		4		_	-								_		- 1	<del></del> -	-		_			,
<u> </u>	7		HAR	1					-	<u> </u>					_	-	-							·			:	;		٠: <del>-</del>	=	_	• •	.,	
-		ALLMINAL	1 F B		į	i		i		1	i			- 1		<u> </u>	i	!	_				i :			1	į				PACING COMPONENT	PON	12	-	
ا د	FISCAL YEAR	3	NY.		i	]	į	;	<u>' i</u>	-	:			i	!	1			:	,	:	•	!	i	:	[ ]				1	HP0				
FEBRUARY 199	*		DEC	1	ļ	-1		i	H					i	-	T				,	1			1	:	,		-			0	AL 1	9	٥	
إخ	CAL		NOV		:		ī	1		1	i			i	T	T	Π	-	1	1	- 1	ı	. ,	1	:	, ,	- 1		ī		2	•			
5	-15				i	- !	-	1			;				1	Ī	ī	i	•			:	1 .	i	i	i ;	i	ĺ	T		AC I		9 4	0	
		1	SEP OCT		i	ī	÷	i	1	÷	į			-	+	Ť	1	;	<u> </u>		-	÷	i	÷	+	<del>                                     </del>	+	╁	<del></del>		c.	UALT			
-			AUGS	++	1	<del>-</del>	-	1	! : ! :	1	<u>:</u>	1 1		+	+	<del></del> -	<u> </u>	1			÷		<del>:</del>	÷	:	1 1	+	-	+						
H722	!!			<u> </u>	1	- 1		1	: !	<del> </del> -		1 1			+	+	1	-		;	-	-	1 1	+	<u>:</u>	1 :	1	+	+	i.			IAL	5	
			호	1 1	- 1		!	1	<u> </u>	+	!	<del>                                     </del>	<u> </u>	+	+	+	<u> </u>	<u>!</u>	_	;	<u>!</u>	1	1 1	;	<u>!</u>		+	1	+	HMARKS			INITIAL	5	
3		98	HAY JUN	11	- !	_	<u> </u>	<u> </u>	1	-	!				+	+	-	<u> </u>	<u>i                                    </u>		1	i	11	1	Ļ	Ц	_		<u> </u>	Ì			<b>=</b> ä	•	
P-1 ITEM NOMENCLATURE CTG MORTAR 60MM SMOKE				11	4	_	1	_		1	!		_	_	$\perp$	Ļ	1	<u>i                                      </u>	Ш		i	-	<u> </u>	1	!	<u> </u>	1		!	۔ ا					_
E E		Ę	JAN FEB MAR APR	<u> </u>	_			_		1		Ш	_ !		$\perp$		_	<u> </u>	Ц	_	1		1 1		1										
Α₹	8	CALL NIDAH YLAR	¥		_		<u> </u>						-	┙	$\perp$	$oldsymbol{\perp}$	_				i				<u> </u>	ĺ	l				ĺ		<del>5</del>	-	
N 9		Ş	FEB																													1014	20 2		
ĒE	AR	3	NA I				Ī			T			Ì	Ţ		Π	Ī				ĺ	-				П		T			-	2 :	[ ]		
포함	7		DEC	11	1	T			П	T		П	٦	T			Π			Ī		T	İΤ	Ì	Г		$\exists$				PROCUREMENT LEAD TIME			1	_
150	Z Z		Ş	П		T	T			Ť	T				T	$\top$		Ī		i	T	Ť	П	<del>-   -</del>			$\dagger$	+			1	-	2 2	.	
ت ب	IS.		2	Τİ	1	$\top$	Ť			†			1	$\top$	Ť	十	T	i		Ť	╁	†	$\forall$	+-	<del> </del>	H	+	+	t		EA		- 1	'	
-	_	1	SEP		十	+	$^{+}$		T	t	Н		┪	Ť	+	+				+	+	t	H	+	-		+	+-	+			PHION ALLIN	_		
		1 1	AUG	H	÷	┿	┿	i	$\vdash$	+			+	+	t	+	-	-		+	+	<del>-</del>	╁	+-	┝		+	+	┼┤			2	ŏ .	,	_ !
			휙	$\vdash$	+	+	┿	+	+	╁	$\vdash$	$\dashv$		+	┿	+	$\vdash$			<u> </u>	+	1	++	+	-		+		+		ä				
.	1			++	+	+	+	1-1	+	╁		$\dashv$	+	+	+	+-	H	H		+	+	+	+	+-	ļ	H	+	+					9	,	١
		97	Y SK	╁┼	+	+	-	$\sqcup$	+	-		-	+	+	+	╀	L			1	+	1		-	_		1	$\downarrow$	1		4				
			A MAY	-	+	+	+	$\sqcup$	+	╀	Н	-	4	-	<del> </del>	-	_			_	$\perp$	+	$\sqcup$	1,	L	Ц	$\downarrow$	4						3	3
		5	-		4	4	<u> </u>		+	4	Ц	_	4	-	18		Ļ.			4	_	1	$\sqcup$	24			_	4	24		ı			Ž.	
	16		₹ _	Ц	1	1		$\sqcup$			Ц		1	$\perp$	15		L				_	_		20	1				20	L					_
		CALLHDAILYLAR	JAN FEB HAR APR		4	_	Ĺ		-	9			_	_		1_								34					34		0 ×	<b></b>	T	li	 i
Z	YEAR									L																					ONTHS TO	2			
중	Σ.	L	DEC																				$\prod$								MON PLAC	١ ا	9 0		1
10NITIC	CA	8	OC T		ļ															1	T	T						T		. г		-	9 0	5.00	
<b>Ş</b>	FIS	6	2		Ī	T							٦	T		П			-	T		Ī	П	Т							ATE:	MAXIMIM	150.0	2	•
APPUNITION		1001			0	0 0	23.0	0.00	2	9.00	0.00	0.00	9	9.00	12	0.0	0.00	0.00	0.00		0 0	0.00	П	78.0	0.00	0.00	23.0	4.00	105		뷝	3	- 1	1 1	h
-	2 5		%		0 0	0 0	0 0				٥							0	0						0	0	7	न	1 1		部	ا ۽	50.00	5.00	
_	ACCIP	0 2	96		0 00	8 6	0.0	0.00	2	0,00	0.00	00.0	0.00 0.00	0.00	0.0	0.00	0.0	0.00	0.0	-   3	0 0	0		19.0	00.00	0,00	0.00	0.00	19.0		5	1	<u>ভাব</u> যান	1	
5	¥ €	ī	+	<del>    '</del>	7	ع اد	10	9	- -	10	- 9	7	7	7	+	10	-			+	7	10	++	+	10	9	9	9	+7		PRODUCTION RATES		0 0	0	
13		li																											<u> </u>		0	3	1-	4	
Š	<u>}</u>	-	-		T	T	Τ	П	$\top$	П		$\neg$		1	Τ	П		П	j	T	T	Τ	$\sqcap$	$\top$		T	$\dagger$		PRODUCTION			T			ľ
ZE	N	-	÷		+	+	-		+	+	Н	-	+	<u>_</u>	+	$\vdash$				+	+	+		+	-	1	+	9	N IN		ሦ		z		
ISI.	Š	li	99					0.00						4.00			L		0.00			L						4.00	101, PRO		Ž	_  '	7 9		
NO.	PROGRAM QUANTITY		98		T	Γ	23.0	T - T			Π	T	0.00					0.00	T	T	T		Π		П	T	23.0	T	Γ		MANUFACTURER NAME	<u> </u>	LAN 3 F		
- 1	IGR A	- i-	<del></del>	-	+	+	- 0	$\vdash$	+	$\vdash$	$\vdash$	퀽	9	+	+	+	8	9	+	+	+	þ	+	+	-	00	ď	+	1		2 ∶	S LOCATION	Ŧ.	H	
병활	PRO	į	97		1	0		Ш		Ц		0.0	$\perp$	$\perp$	Ļ	Ļ	0 . 00			$\perp$	1	0.00		<u> </u>		00'0	$\perp$	$\perp$			FAC	9		ij	ļ
₩.	_	3	7.1 96F	3	3 6	3		ΙĪ	13.0	9.00	0.00				76.0	0.00			ſ		9 0	<u>.</u>		97.0	0.00						Š.	• 5	<b>2</b> 2	Æ	
N. I			+		<u>&gt;</u>	-	-			1	1	+	+	+	$\top$				+	<u> </u>	1	-	1				╁	+	+		Í		TILAN AAP MILAN, IN	ALLIANT TECH	
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AFFAUNITION, ARMY/ACTIVITY	SП	≃>			٠ ح	۵ ۵	4	⋖	¥	ž	Ź	설	ᢓ	설	٢	_		오	오		ه اه	4		A L	ALL	ALL	1	뒿		ŀ		╁	FA	7	ند
FRI		Ξ		-	4	4	×	×				¥	×	¥	-	X	×	×	×		Y Y	¥	H	Ŧ	П	-	Ŧ	H	1	ł	ي	_ .			
PR0		,			i		2		-	. ~			1	2	_							-									FAC	ջ .	-	m	ŀ
- T	FAC	õ				-									1				- [		1	1		ĺ			1		-						

101 101 101 101

FAC NO.

4

or 11 .. "AGES PAGE NO 9 P-111M NO 15.

FAC ջ

A SHEY ACTIVITY   A SHEAL STOCK   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEAL   A SHEAL SHEA	ľ	ATTA	20010/	1	44744	,									3		-		١							-		Ē	FEBRUARY		1997		000	OMP	111) COMP (ARI) 1817	ا د	:	1
From the quantity   First	25	REMEN	T AHMU	LITIE	N, AR	HY/A	CTIV	ΙΤΥ	Ā	Ę	1110	Z							۵_	-1 51 12	퍞훒	TAR TAR	ACLA 60H	SFS SFS	Ä	Ē	722										_	E70500
No.   F. F.			PRO	GRAH	QUAN	TIIY		ACC1 P	3 5	FIS	CAL	YEA	œ	00					-	ISCA	<u>۲</u> لير	EAR	2						FIS		YEAR	,	1					
V   V   V   V   V   V   V   V   V   V	I				.			_	AS 01	6	6		NEN	ARYL	Ę	0	-					CALLA	DAR VE	1		=			-		7	7 IVON 1	1 VI VI	0.0			:	
0.05   0.00		+	<del></del>			۲	- 4	_		8	MOV		NN FE	HAR	APR	IAY AU	¥			C1 10	VDEC		EB MA	RAPR	HAY	7		CSEP	120	20	17	NFEB	HARA	PRHA	$\rightarrow$	Ę	100	. =
A   0.00   0.0				+	-	$\int$		66	66		Ì	+	+	$\downarrow$		+	_			$\vdash \mid$	Ц			Ц			H	Н							-		;	
A   0.00	.! 🗵	<	00.0	+	1			0.00	00 0			+	+	4	T	+	$\bot$		T	+	+	$\perp$	$\frac{\perp}{\parallel}$	1		$\dagger$	+	-		_	+			-	_		+	کند.
A   0.00   0.0	العا	4	9.00	-				0.00	0.00			+	-	1		╁	+	I	T	+	1		+	1	T	+	+	+		$\dagger$	+	I		<u> </u>	1		÷	00.0
A	ابد	_	0.0	0				0.00	0.00			$\vdash$	-			-	L			+	1		1		Ì	+	+	1			-	-	-	-	[			
13   13   13   13   13   13   13   13	¥			23.	o			8.00	15.0			Н	Н	Щ		H	<u> </u>			$\vdash$			<u> </u>			$^{+}$	<u> </u>	1		-	+		1	1	1	İ	1	1
18.   13.	Υ		+	4	0.0			_	0.00				Н	Ц		Н	Ц		Н	H			$\vdash$			$\vdash$	-			<del> -</del>	<u> </u>		1	<u> </u>	1	1	1	
No. 20	دا	ý	+	+	$\perp$				18			+	+	4		+	4		+	+			+			+					<u> </u>		i	<u> </u>	-			, ;
No. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	لاله	2 4	200	_	1			200			T	+	+	1	İ	+	+		$\dagger$	+	1		+	1	$\perp$	$\dagger$	+	+	Ī	+	+		-	<u> </u>	i	ì	+	1
No. 20	44	¥	000	-				0	2 5	Γ	İ	+	+	1	ļ	+	$\perp$		$\dagger$	+	$\perp$	İ	+			+	+	+		+	+			+	1	1	<u>:</u> 1	ì
NS	يد	Ş		8				00 0	00.0		İ	+	$\vdash$	L	L	+	_		$\dagger$	$\perp$	$\perp$		_	L	İ	Ī	<u> </u>	1	I	+	+	-		+	1	Ī	-	1
K				9	۵			0.00	0.00			-	H			+			-		L		$\vdash$			╁	-	-		-			-		<u> </u>	Ī	:	
HE   76, 0   10, 0								0.00	4.00								L		0	_			-			-	-			1	-			<u> </u>		;	1	
Hart Faller   Hart Faller	_											Н	Н			Н	Ц						$\vdash$			-	_	1		-		i		!	<u>i</u>		:	1
HE   0.00   0.	يد_		0.92	_					0.00										H	H						<u>:</u> [	_	_		i i	<u> </u>		-	-	:	!	i	i
H	×	오	0.00	-					0.00			-														-	_			_	_			<u> </u>	-		i	000
HC	×	_	0	9				0.00	0.00					_			_		-	<u> </u>						-	_			<u>                                     </u>	<u> </u>			<u>i                                     </u>	-		: 	
HC   Do 00	ابد	오	-	٥	0				0.00		П	Н	Н	Ц		-							-			<u> </u>	-	<u></u>		<del> </del>				1	<u> </u>	Ī	1	
A   0.00	×	도	-	4	0.00				0.0			$\dashv$	$\dashv$							Ц								!		<del> </del>	<u> </u>		<u> </u>		1	<u>:</u>	:	00.0
A	_1		-	+	$\downarrow$			Ì			j		_				$\sqcup$													<u> </u>	<u> </u>		!	!		!	-	ī
A	ابح	4	0.00	4					0.00			-	4	_		-	_																<u>-</u>	_		i	!	00.0
ALL 97.0   9.0	XI.	W.		4					0.00			+	-			-	_																<u>-</u>	_		1	1	<u>: 0</u>
ALL 97.0	Y.	4	<u>.</u>	8					0.0			-	-				_													-			<del> </del>		<u> </u>		;	ļ
ALL 97.6			+	_						$\top$	$\top$	+	+			+	4		$\forall$	4			H			$\vdash$				<del>                                     </del>	Н							- :
ALL   2.00   2.00   0	-		+	-						Ţ	†	+	+		1	+	4		$\dagger$	+	Ţ		+		$\exists$	+	+	1	Ì	-	1		+		- !	-	-	
ALL ANT TECH   10.00 6.00 6.00 6.00 6.00 6.00 6.00 6.0	4-		5.7	+					9 6	T	$\dagger$	+	+	$\perp$	İ	+	1		+	+	$\downarrow$	$\dagger$	+	Ţ	İ	+	+	1	1	+	+		-	-			<del>.</del>	
ALL   23.0   2.00 4.00   2.00 4.00   3.00 15   3 21 24   3 3 21 24   3 3 21   3	+			+	1			20,00	30.0	Ť	Ť	+	+		1	+	$\perp$		+	1	Ţ	$\dagger$	+	Ţ	İ	+	+	1		+	+	Ţ	+	+	-	i		00.0
HANUFACTURER NAVE   PRODUCTION RATES   International Substitute   PRODUCTION RATES   International Rate   Intern	1	1	-					9 0	3 4			+	+	L	T	+	1	I	$\dagger$	+	I	İ	_	Ţ	İ	1	+		Ī	+	i	Ī	-	-		1		00.0
FIGURE IN THE   PRODUCTION RATES   MANIMUM AT IT ALLIANT TECH   10.00   5.00	4-	-		1	-			9 6	2 0	1		+	+	L	T	+	L	ľ	6	+	L		+	I	İ	+	+	+		-	-	I	1	-	-	į	+	
FOCATURER NAME   PRODUCTION RATES   MAXIMUM   185   MAXIMUM	$\sqcup$			$\vdash$				X X		П			Н	$oxed{\Box}$		$\vdash$			3	H	$\Box$				$\perp$	+	<u> </u>	1	:	-	+	1	i		-	-		0.00
HANUFACTURER NAME   PRODUCTION RATES   MONTHISTO   M					101A1	100N	<u>}</u>	105	19.0		Н	H	Н	Ц		Н			0				H			$\vdash$		<u> </u>		$\dashv$	H		$\frac{\cdot}{1}$	$\perp$				0 00
No. 00   10.00   1.00	1	-	TANUFAC	TURE	NAH	ш	PR	DOUCT	N R	ATE	S	TACH	\$ 10 MAX	Ц		1	SOCU	EME	N I	EAD	HI			_	Ξ	MAEK	sc.		PACI	Ş	OMPC.	ONEN	_					1
0.00 40.00 100.0 0   100.0	- 1	$\dashv$	& LO	CATIC	z		SUSI		2	AXIM	3	ILAL	OUA	_			PRIOR	4	MI.			•	₹					<b>-</b>	ALT	Ā	Ε.	PON		TOTAL				
10.00 50.00 150.00 0   10.00 5.00 5.00 5.00 5.00 5.00 5.00 5.0	- 1	HIL	AN AAP	HILA	N. IN		٥			100	9	0	T				1001	=	ō		٥	1	1001			INI	IAL		9		9	12		18				
0.00 5.00 5.00 0	- 1	NIA	E BLUF	RS	ENAL		9	-1	8	15	9	0	T	_	VI	_	9	<del>~</del> )	_	21		Ñ	J		_	REOF	?DER		9		9	12		18				
	1	1	IANT				٥	- i	00	N.	8	0	T			•		<u> </u>	Ī					_														

PITHING 15 PAGENO 10 OF 11 PAGES

.	E70500	<	<u>, u</u>	,∝			İ			0.00	00.0	00.0	200	20.00	ļ	1	-	!				-	Ī	į	-	İ	į				į		Ī	00					
DD COMP (AR) 1012	E7		Ī	SEP		Ī	Ī	:	Ī			1		i		-	ì	i		:	i	1		!	1	i	1		- 1	i	-	İ	-						CHANTITY IN TAILOUR
				AUG		-	1										į			;	į		:	1	-	:		i		Ī	i	i	1						,
							į		Ţ		1		1		ĺ					i		-	T	Ī	T						1	Ī							Ì
0 0		į		HIN.		-		I			1	-					ĺ					į								Ī	i	Ī	1	П					ž
Š.			02	НАУ			Ī	Ţ	Ī	i	İ	İ								į	Ì	Ī		Ī	Τ	T					i	T		П		Ā	18	18	}
CO				APR		Ī	İ	Ī	Ī	Ī		Ī		T						1		-	1	Ī	Ī	T		1	i	T	T	İ	i			TOTAL	_	-	1
Ē			ALLINDAR VEAR	HAR				!	ĺ		T	1	Ī							Ī	i	ij	i	-	1	1			Ī		T	Ī			١.				2
			NON	JAN FEB MAR					Ī	T	T	Ī								i			1	T	1	İ			T	Ī	Ī	Ī			PACING COMPONENT	PON	12	7.1	
-		AR S	3 3							Ţ												1	T	1					T		1	-	П	٦	Ó				
1997		× .		DEC							Ī	П									1		Ī	T	Π						Ī				8	AL.T	9	٥	
		FISCAL YEAR		Ş								Ī											T	T				Ī		i	Ī				٤	`			
FEBRUARY	ļ	FI		120	$\perp$		-			L			Ì																T	T					AC.	UALT	9	٥	
H				SEP	$\perp$																		Τ								1		П	٦	-	Š			
ט	2			AUG									Ī									I		I						T	Ī		Ī				ᇎ	5	
2 4 1	H72			₹		1							L							$\rfloor$	Ī		I	Ι					$\prod$	Ι	Ī				E S		INITIAL	Š	
	CTG MORTAR GOWN SHOKE WP H722		5	ş							$\int$											Ī	I	ŀ				Ţ		T	Γ			7	HE MARKS		NI	į	
	KE			HAY		Ĺ															$oxed{\int}$			Ι	$oxed{\Box}$					I					Ē				
	왕		5	JAN FEB HAR APR																$oxed{\int}$	$oxed{oxed}$		$oxed{\mathbb{I}}$	I															
	ΞĒ	10	ALENDAR VEAR	HAR		L																						$\perp$									5		
	20		NO.	FEB		L	$\perp$	L			L	$\perp$	L															I		$oxed{\Box}$						10141	24	:	54
3	5 2	EAR	3		$\perp$	$\perp$	$\perp$		L		1		L	Ш															$\prod$							-	Ž		,,
1	들	<b>-</b>		DEC	$\bot$	Ļ	_	Ļ	L	$\downarrow$	1	_		Ц				_	$\perp$			1													H			Ī	
-	72	SCAI		AUG SEP OCT NOV		L	┸			$\perp$	L			Ц								$\perp$													9		21 21		21
ā		<u> </u>		8	-	1	$\perp$	_	Ļ	Ļ	L	<u> </u>	_		_	4	4	4	4	_	$\perp$	$\perp$	$\perp$	Ļ	Ц		$\perp$	1							19	_		+	_
1				S	1	┞	╀	_	L	L	L	<u> </u>	_	Ш	4	_	4	4	4	1	_	$\perp$	$\perp$	1	Ц	$\Box$	$\perp$	1	$\perp$	$\perp$		Ш		<u>Б</u>	N.	3 5	, N	,	3
4							_	L	L	L	L	L	L			_	4	4	4	1		$\perp$	$\perp$		Ш										PROCUREMENT LEAD ITHE	PRIOR AFTER	+	+	-
-				3	_	L	_	_	L	L	L			Ц	4	4	4	1	$\perp$		$\perp$	$\perp$		L			$\perp$			$\perp$					2	POM	و ان	.	9
			8	3	-	L	_		L	Ļ	L				4	4	4	4	4	$\perp$	$\perp$	1	$\perp$	L	Ш	1	$\perp$							╛	1	<u> </u>	-1	L	$\dashv$
TOTILO			ŀ	AA ~	-	L	<u> </u>	L	L	Ļ	Ļ	Ц	_		4	4	4	4	1	1	$\downarrow$	Ļ	$\downarrow$	$\perp$	Ц	_	$\perp$	$\perp$	$\perp$		Ц	$\perp$					,	7	5
[			4	1	+-	-	┞-		L	L	Ļ	L	4.0		4	4	4	4	4	1	+	1	$\bot$	L	Ц	$\perp$	$\perp$	1	_		Ц		_	_					RLORDER
!		8	A V	<u> </u>	+	_	L		_	L	L	L	Ц	1	4	4	4	4	4	4	$\bot$	4	$\downarrow$	oppi	Ш	4	4	1	1		Ц	4	$\downarrow$		Щ				لـــ
,			AL LNDAR VEAR	JAN FEB MAR APR	+	L		Н	_	L	L	Н		4	4	+	4	4	4	4	$\bot$	+	$\downarrow$	╀	Ц	4	4	4	1	L	Ц	4	4	_	118 TO	λ	Т	П	
;	_	Ž	5	5	+	_		Н	L	L	_	Н	_	4	4	4	+	4	+	+	+	+	+	$\vdash$	Ц	4	4	4	╀	L		4	4	4	E I	٤,	90	٥	
	AMMUNITION JETSCAI VEAB	ا ہ	86	2	┼┤	_			L		L	Н	_	+	+	+	+	+	+	+	+	+	+	╀	Н	4	+	+	+	-	Н	-	4	4	HIACH	5	1	1	- 1
	Z	2	8	<u> </u>	++				_	-	-	Н	4	4	+	+	+	+	+	+	+	+	+	╀-	$\vdash$	-	+	+	+	H		4	4	IN.	ES	MAKIMUM	150.0	5.00	5.00
	事			8	+ +		97		0	9	-		9	+	+	+	+	+	+	+	╀	╀	+	┞-	Н	4	+	+	╀	-		-	4	5	RAI	MAX	1	1	
	•	#AL DUE	98 100 100 100 100 100 100 100 100 100 10	8	:		HPTS		0.00	0.00	0.00 0.00	0,00	0.00 4.00	ı						1		1										١		1051 19.0	중	٤	9 0	5.00	5.00
	1	PRIOR							97.0	00.0	00	24.0	8	T	T	7	T		$\dagger$	$\top$		T	T		П	$\dashv$	$\dagger$	T	$\dagger$			十	+	021	Ę	- 3	0.00 50.00		- 1
	EL	Ų Ē		8			5	4	97	0	0	2	٥	$\perp$	1	4	4	1	$\perp$	1		$\perp$		L	Ц	4	_	$\perp$	$\perp$	Ш	Ц		1		2		3 8	0.00	0.0
	Ĭ		2				: H745 FZ			l												ŀ											>		PRODUCTION RATES	SSS	12		9
	X/A	Ţ	20	_	$\sqcap$	1		7	$\exists$				1	$\top$	$\dagger$	+	$\dagger$	+	+	T	T	T	T			1	$\top$	$\dagger$	T	Н	$\Box$	$\dashv$	וסוארשפאווייי	Š		T		П	
Τ¥	ARH	ITI	-	_	H	4	칡	4	$\dashv$	Н	-	$\dashv$	힏	+	+	+	+	+	+	+	+	-	+	$\vdash$	$\dashv$	+	+	+	+	Н	Ц	+	-E	200	¥	;	ے ا		
IVI	-	₽,	Ž	_	+ +	$\bot$	희	_					4.00	1	1	$\downarrow$	1	1	1	1	$\perp$	1	_	L	Ц	$\perp$		$\perp$					è	2	Ž	_  '	] \		į
ACT	IO	PROGRAH QUANTITY	è	- 8			PACING COMPONENT				-	24.0	-						İ																HANUFACTURER NAME	C LOCATION	PINE BLUFF ARSENAL		9
Ĕ	Ä	PO CH	2		П	7	CT CT	1	7	7	0.00	٦	7	$\top$	1	$\dagger$	†	1	T	T	T	T		П		$\top$	$\top$	T	Τ	П	7	$\dagger$	7		CT.	Z Z	F	ALLIANT TECH	TO BE SELECTED
100	A	Z.	_	-		+	ā	+	ӈ	밁	9	$\dashv$	+	+	+	+	+	+	+	+	+	+	-	H	+	+	+	+	+	H	+	+	4		LFA.	֓֞֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	3	Ħ	띯
₹ N	Ę		à	•					97.	0.00					1	$\perp$	1	1			$\perp$	$\perp$						L	L			$\perp$			HA	7	¥ y	I	띪
APPROPRIATION/BUDGET ACTIVITY	HE	SШ	د >		ΙŢ		T	T	101	TOT	TOT	TOI	101												Ī						T	T			_	15	1	귤	의
RIA	<b>%</b>	נכ		#	H	#	#	_	¥	¥	×	_	7	#	+	‡	+	+	‡	+		F			_	#	‡	+	=	H	#	#	#						Ì
Š	P.80								M			5	4																			ļ			FAC	일 -	- ~	м	3
	-1	FAC		1	1	- [	- 1	- 1		- 1	- 1	7	-1	-	1	-1	1	1	1	1	1	1	ı	1	- 1	- 1	1	i	1	ıi	- [	1	1						

PILINENO 15 FACENO 11 OF 11 FACES

		į	! !								DATE			
	BUDGET ITEM	H.S	ITEM	JUS	TIF	ICAT	JUSTIFICATION S	SHEET	E E		H	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	/BUDGET AC	TIVIT	}				P-1 ITEM NOMENCLATURE	NOMEN	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	AMUNITION,	ARMY/	ACTIVITY 1	. AMMUI	AMMUNITION		CTG MORTAR 60MM HE M720	R 60MM	1 HE M720				(E	(E67303)
	FY	96	FY	97	ΡΥ	86	FY	66	FY	00	FY	01	02 FY	03
QUANTITY		-0-	58			-0-	-0-		-0-		22		31/30	3.0
(Thousands)									)		; }		)	
COST (In Millions)	<b></b>	-0-	\$ 10.0		•	-0.	-0-\$		-0-\$		\$ 11.1		\$ 6.2/6.0	76.0

~

### DESCRIPTION:

light vehicles, and light bunkers. This item is Code A, approved for service use. This item is fixed standard priced The 60mm M720 high explosive (HE) cartridge utilizes the M734 multi-option fuze (MOF) and is the primary HE round for the M224 Light Weight Company Mortar System. The MOF can be set for proximity, near-surface burst, point detonation, or delay detonation. The cartridge is designed to be used against enemy personnel either in the open, or in foxholes, and procured through the CAWCF.

# JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1977

RCS: DD-COMP (AR) -1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG MORTAR 60MM HE M720

DATE: FEBRUARY 1997 NSN = 1310-01-022-7680 (E67303)

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

(	UNIT TOTAL	77.00															
FY 99 (QTY	ΥΤζ																
) F	TOTAL							<b></b>	-• <del>-</del> -•		****	<del>-</del>				· ·	
	UNIT																
FY 98 (QTY	QTY																
57648)	TOTAL		827 549	64!	578	440	33	18;	06	176	462	101 5193 83	23	40		=:-	0000
	UNIT		14.35 9.15	1.39	1.26	7.35	72.13	9.53	19.53	92.0	1.99	$\begin{array}{c} 1.70 \\ 86.62 \\ 1.38 \end{array}$	87.59	12.54	12.75	60.83	
FY 97 (QTY	ΔĨΙ		57648 59954	46119	23060 59954	59954	462	1903	4612	232898	232898	59378 59954 60531	260	3229	87	18	
^	TOTAL				·· -· -· -						··					·· <b>-</b> · -	-
2	UNIT																
FY 96 (QTY	QTY											.,			n4 <del></del>	·· •· •	
	ELEMENT OF COST QM: EACH	HARDWARE	1.LOAD, ASSEMBLE, AND PACK (LAP) 2.*PROJ M720 MPTS	GRADE A (LB)	FLAKE (LB) 5.FIN ASSY M27	M702 M702	7 LANE 3)	WW GR A (LB)	(LB)	MZ04	M204	13.FZ MO M734 MPTS 14.DET STAB M61	CLASS 3 (LB)	1 (LB)	CLASS 3 (LB)	.~	CITEMONAT

P-1 ITEM NO. 16 PAGE NO. 2 of 8

EXHIBIT P-5

. . Is

:=: L

THOUSANDS)	ATURE:
AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)	P-1 ITEM NOMENCLATURE: CTG MORTAR 60MM HE M720
AMMUNITION	APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION
RCS: DD-COMP(AR)-1092	OPRIATION BUDGET ACTIVITION, ARMI
RCS	APP

PCN:P02QM1DOC4Z

MTATA	AMMINONITION COST ANALISIS (DOLLARS IN: THOUSANDS)	INALISIS	(DOLLARS IN:	: THOUSAL	(DS)		DATE:	FERRITARY	1997
APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	ITION	P-1 CTG	ITEM NOMENCLATURE: MORTAR 60MM HE M720	LATURE: HE M720			NSN = 1310-01-022-7680 (E67303)	10-01-02 (E673	2-7680 03)
FY 96 (QTY	FY 97 (QTY		57648) FY 98	98 (QTY		) FY 99	YTQ) 6		_
ELEMENT OF COST  QM: EACH  COST  TOTAL	T QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
PRODUCTION SUPPORT !						-			
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE			399! 12!			<b>-</b>			
3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARGE	<b></b>		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
* [17 or at 1									
SUBTOTAL			1925!						
NONRECURRING									
1.*GOVERNMENT FURNISHED MATERIAL			-642						
SUBTOTAL			-642						
· * * * * * * * * * * * * * * * * * * *	· 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	*******	*****	*****	****		, , , , , , , , , ,	1 1 1 1 1 1 1	1 1 1 1 1
TOTAL P-1 LINE ITEM!		173.31	9991!					k k k k k k	* * * *

PAGE NO. 3 of 8 16 P-1 ITEM NO.

EXHIBIT P.5

	1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	, HISTORY	& PLANNING	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE	DATE: FEBRUARY	RY 1997	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUN		NOILI	P-1 IT	P-1 ITEM NOMENCLATURE CTG MORTAR 60MM HE M720	TURE E M720	NSN = 1310-C	1310-01-022-7680	680 (E67303)	03)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	1F YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1997 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	APR 97	SEP 98	57648	14.35	YES	ON	:
2. *PROJ M720 MPTS FY 1997 STOCK ISSUE	N/A	N/A	N/A	N/A	59954	4 2	6 2	× ×	
3. *COMP B TYPE I GRADE A (LB) FY 1997 STOCK ISSUE	N/A	N/A	N/A	N/A	46119			V 6	
4. *TNT TYPE I, FLAKE (LB) FY 1997 STOCK ISSUE	N/A	4/2	4/N		11 00	V / N .	N/A	¥ / ≥	
5. FIN ASSY M27	!		U / M	# /N	73080	N/A	N/A	K/N	
FY 1997 TBS	C/FP	IOC	OCT 97	APR 98	59954	9.63	YES	NO	
REMARKS:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		:

TBS - To Be Selected

4 of 8

PAGE NO.

P-1 ITEM NO. 16

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	3Y 1997	, , , , , , , , , , , , , , , , , , ,
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1, AMMUNI	TTY 1, AMMINT	NOTE	P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-C	1310-01-022-7680	580	( 80
			011		E M/20	1 1 1 1 1 1 1 1 1	1	C / OT)	
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	LF YES WHEN AVAIL
6. LAP CTG IGN M702 FY 1997 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	APR 97	MAR 98	59954	7.35	YES	ON	· · · · · · · · · · · · · · · · · · ·
7. M9 FLAKE .006 (LB) FY 1997 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	OCT 97	JUL 98	462	72.13	YES	NO	
8. NITROCELLULOSE WW GR A (LB)FY 1997 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	OCT 97	36 NUL	1903	9.53	YES	NO	
9. M10 FLAKE .008 (LB) FY 1997 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	OCT 97	AUG 98	4612	19.53	YES	ON	
REMARKS:		} ! ! ! ! ! !			 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1

P-1 ITEM NO. 16 PAGE NO. 5 of 8

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	 	DATE:		FEBRUARY 1997	1
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-0	1310-01-022-7680	580	; ; ; ;
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI	ITY 1. AMMUNI	TION	CTG MO	MORTAR 60MM HE M720	E M720			(E67303)	33)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
10. LAP CHG PROP M204 FY 1997 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	APR 97	JUL 98	232898	0.76	YES	ON	
11. CONTAINER ASSY M204 FY 1997 ARMTEC DEFENSE PROD COACHELLA, CA	C/FP	IOC	OCT 97	APR 98	232898	1.99	YES	NO	
12. LAP FUZE MO M734 FY 1997 MARTIN MARIETTA MILAN, TN	SS/CPAF	COL	OCT 97	JUL 98	59378	1.70	YES	ON	
13. FZ MO M734 MPTS ** FY 1997 TBS	C/FP	IOC	76 NUL	JUN 98	59954	86.62	YES	NO	
14. DET STAB M61 FY 1997 DAY & ZIMMERMAN TEXARKANA, TX	SS/CPFF	IOC	MAR 97	SEP 97	60531	1.38	YES	ON ON	
REMARKS:			; ; ; ;			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 :	:

\*\* PACING COMPONENT TBS - To Be Selected

6 of 8 PAGE NO. 16 P-1 ITEM NO.

			PROCUREMENT	HISTORY	HISTORY & PLANNING		DATE	DATE: FEBRUARY 1997	KY 1997	1 !
APPROPRIATION/BUDGET ACTIVITY	Ĭ			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1310-01-022-7680	01-022-76	280	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	//ACTIVI	Y 1. AMMUNIT	rion	CTG MO	CTG MORTAR 60MM HE M720	E M720			(E67303)	)3)
LINE ITEM/ FISCAL YEAR CONTRACTOR		CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVA1L NOW	SPEC REV REQD	1F YES WHEN AVAIL
15. HMX GRADE B, CLASS 3 (LB) FY 1997 HOLSTON DEFENSE CORP KINGSPORT, TN	3) SE CORP	SS/CPFF	IOC	JAN 97	JUL 97	260	87.59	YES	ON	
16. *COMP A-5, CLASS 1 (LB) FY 1997 STOCK ISSUE	! ! !	N/A	N/A	N/A	N/A	3229	N/A	N/A	N/A	
17. RDX TYPE II, CLASS 3 (LB) FY 1997 HOLSTON DEFENSE CORP KINGSPORT, TN	3) SE CORP	SS/CPFF	IOC	MAR 97	AUG 97	87	12.75	YES	NO	
18. PBXN-5 TYPE I, CLASS 3 (LB) FY 1997 HOLSTON DEFENSE CORP KINGSPORT, TN	(LB)	SS/CPFF	IOC	MAR 97	JUL 97	18	60.83	YES	ON	
REMARKS:	; ; ; ;			 			 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	:

P-1 ITEM NO. 16 PAGE NO. 7 of 8

	Ī				Т	0	0	0	0	0		<b>D</b>		0	0			ol	0	ଠା	Т	1	T	ء آد	ы Ы ,	ء آد	51.	<u> </u>	1	П		Т	<b>⊤</b> _				
ďΒ⊙ <b>ľ</b> ,	E67303		₹E-1	 		0.0	0.0	0.00	0.0	0.00	5			0.0	00.0			0.00	0.00	0.00			- 3		00.0	000	5 6	00.00					00.0				Č
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E6			SEP	-	4	$\dashv$	4	$\perp$	4	+	_	_	_	_			4		4	$\perp$	_	_	1	$\perp$	1	$\perp$	1	1			_					OUANTITY IN THOUSANDS
NTRO 192				T. AUG	-	+	+	+	+	+	$\perp$	+	$\downarrow$	-	-	_		-	4	$\perp$	4	$\downarrow$	$\downarrow$	+	4	4	4	$\downarrow$	_		_	_					PHO!
S CC				N JUL	-	$\dashv$	+	+		-	+	+	$\dotplus$	-	-		$\dashv$	-	4	4	$\downarrow$	4	$\perp$	$\downarrow$	+	$\bot$	1	$\perp$	<u> </u>	Ц	4	$\perp$	$\perp$		. 7	m ~	. 2
MENT				MAY JUN	+	+	$\dashv$	+	+	+	+	╁	+	-	-	Н		$\dashv$	+	-	$\downarrow$	+	+	$\downarrow$	$\perp$	4	$\downarrow$	-	-	Ц	_	_	$\perp$	T-IV	TOTAL	18	· · · · · · · · · · · · · · · · · · ·
OUTR COME			99	AFR M	+	$\dashv$	+	╁	+	+	+	+	+	-	-		$\dashv$	$\dashv$	+	+	+	+	+	+	+-	+	+	+	├-		$\dashv$	$\perp$	-	DOM I			, L E P
RE OD	<u> </u>		A K	_	$\dashv$	+	+	+	$\dashv$	+	+	+	╁	$\vdash$	H		$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	+	+	+	+	+	+	-	-	$\dashv$	$\dashv$	-	+-	MOD	PDN	12	OUAl
			CALENDAR YEAR	FEB	$\dagger$	$\top$	十	+	+	+	+	$\dagger$	+	H		$\dashv$	+	t	+	+	+	+	+	+	+	+	╁	+-		$\dashv$	+	+	+1	DACTNG COMPONENT	2		
j		YEAR 99	CALEN	JAN	$\dashv$	$\dagger$	1	十	$\dagger$	+	$\dagger$		T	-	Н		1	1	+	$\dashv$	$^{+}$	$\dagger$	+	+	╁	╁	+	+	$\vdash$	$\dashv$	+	+	+	DAG	ALT	<b>9</b> 9	
1997		ſ		DEC				T	$\top$	1	$\top$	1					寸		1	†	$\top$	†	+	$\dagger$	†	$\dagger$	$\dagger$	+		+	+	+	++		A		
4		FISCAL		NOV													1	7	1	$\top$	7	1	$\top$	Ť	T	T		1		1	$\top$	+	$\Box$				
FEBRUARY		FI	]	Ď							$\prod$	I											Ţ		T	T	T	T	П	7	十	$\top$	11		UALT	9 9	
FEBF				SEP		$\perp$		28	$\perp$			L								28					T		T		П	$\exists$			28	1,0	n	를 K	
DATE ]				JUL AUG	4	1	1	$\perp$	$\perp$	_	L		L				_	╛	1												T	T		REMARKS		INITIAL REORDER	
ŽQ.					4	$\perp$	_	$\downarrow$	$\perp$	$\bot$	$\perp$		<u> </u>		Ц	_		_	1	1	$\perp$		1	L										REM		NE IN	
	Ξ 0		8	MORY JUN	+	4	4	4	4	$\perp$	1	$oldsymbol{oldsymbol{igl}}$				4	4	4	1	$\perp$	_	$\perp$	1	$\perp$	9	1						$\perp$	$\square$	Г	Ţ <u>j</u>	3	
	TUR M72			2 4	+	+	-	+	+	+	+-	╀	-		$\dashv$	4	+	4	$\downarrow$	_	$\bot$	$\downarrow$	$\bot$	1	-	Ļ	_	<u> </u>	Ц	$\perp$	1	1	Ц		¥	24	24
	P-1 ITEM NOMENCLATURE CTG MORTAR 60MM HE M720		ž	JAN FEB MAR APR	-	+	+	+	+	+	╀	┢	H	Н	-	+	+	+	+	╀	+	+	╁-	┡	╁-	-	Ļ	Н		4	$\downarrow$	- -	$\bot \downarrow$	M	TOTAL		7
	MEN	98	CALENDAR YEAR	EB NO	+	+	+	+	╁	+	╁	┢	Н	$\dashv$	$\dashv$	+	╬	+	╀	+	+	+	╀	╀	╀	╀	Ͱ	-	$\dashv$	4	+	- -	$\dashv$	LEAD TIME	<del></del>		$\vdash$
	NOI IR 6	FISCAL YEAR	ALEN	AN NA	$\dagger$	+	$\dagger$	+	╁	+	╁╴	$\vdash$	Н		┪	+	╁	+	╁	╁	╫	+	╀	╀╌	├	-	┝	Н	$\dashv$	+	+	╀	H	EAI	1 2	21	21
	FEM ORT?	ΓĀ	Ť	DEC	+	$\dagger$	T	†	$\dagger$	+	T	$\vdash$	Н	ᅥ	7	$\forall$	$\dagger$	$\dagger$	$\dagger$	+	╁	╁	+	H	+	$\vdash$	-	Н	$\dashv$	+	┿	+	H	I	<u>el</u>	<u> </u>	
P-21)	G K	SCA		NOV				$\top$	1	T	1	Г			7	1	†	$\dagger$	†	$\dagger$	t	╁	$\dagger$	T	t	T	H	Н	$\dashv$	+	+	┪	H	MEN	FILE	~	3
	- T	H H	H	ţ	$\perp$		$\perp$	I	I													T	T	T		Τ	T		7	$\top$	+	T	Н	ÜRE	ADMIN LEADTIME PRIOR AFTER	1	+
(ЕХНІВІТ			H	SEP	_	$\bot$	1	┸	$\perp$	L		L	Ц	$\Box$		$\perp$				$\perp$	$\perp$	L											П	800	PRIO	9	9
			l	y Ag	_	1	1	1	$\bot$	1	40			_	4	4		7	1	$\perp$		$\perp$	L	L	L						I		40			7	ER
				John N	+	+	+	╀	╀	+	41	_	Н	$\dashv$	4	+	<u> </u>	7.5	+	+	$\perp$	╀	$oldsymbol{\perp}$	L	L	L	L	Ц	4	1	$\perp$	L	41			TNITMIAL	REORDER
=			97	MAY JUN	+	+	+	+	╁	+	╀	H	Н	4	+	+	+	+	+	+	╀	╀	╀	┡	L	₽	_	Н	4	+	$\bot$	╀-	Ц			F	: 22
띰				APR M	+	$\dagger$	+	+	╁	+	+	$\vdash$	Н	$\dashv$	+	+	╁	+	╀	╁	+	╀	╀	┝	-	$\vdash$	-	Н	+	+	╁	╁	Н		λÝ	Т	$\Box$
SCHEDULE			EAR	_	$\dagger$	$\dagger$	T	$\dagger$	t	+	$\vdash$	_	H	+	$\dagger$	+	+	$\dagger$	╁	+	╁	╁	╁	┝		$\vdash$	H	Н	+	+	╀	╁	Н	HONTHS TO	4		
別	Ó	97	CALENDAR YEAR	JAN FEB MAR		T	1	T	T	T		Н	$\exists$	1	$\top$	$\top$	$\dagger$	十	$\dagger$	✝	$\dagger$	$\dagger$	$\dagger$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	H	十	+	+	╁	Н	NO.	ž ,	1 1	
S	INI	EA	CALE	JAN		T	T	T	T	T		П	T	7	十	1	1	Ť	T	十	T	T	T		T			Н	$\top$	+	$\dagger$	$\dagger$	Н	RATES	MAXIMUM	400.0	400.0
Z	AM			DEC	L	L										J		I	T	T	7			Г		П		П	T	T	$\dagger$		П	RA	24	1 1	- 1 - 1
빏	1. AMMUNITION	SCF	96	NOV NOV	1	L	$\perp$	L	$oldsymbol{\perp}$				$\Box$								M7734									I				NOI.	72 00	73.00	73.00
S	21		_	ğ	1			<u> </u>		_	Ļ				$\perp$	$\perp$	1			$\perp$	Į,		L		L									UCT	- 1 F	7 7	0
PRODUCTION	IVI	IN I	AS OF 1 OCT	90	000	0	200	0 00 0 00	0 00 0 00		0.00 81.0	0.00 0.00	0.00 00.00	<u>0</u>	0.00 0.00	1	15	00.00	000000		FZ. MPTS		84.0 0.00	0.00 0.00	0.00 60.0	0.00 0.00	0.00 0.00		-		:	İ	139	PRODUCTION	SUST.	17.00	17.00
PR	ACT T	ACCEP. PRIOR		Т	ls		00	8	8		00	00	8	0.00	ब्रो	T	5	3	3 8	3			0.	00	00	00	00		十	T	T	1			Ko.		$\mathbb{H}$
11.				90	Т	90	9	٥		<u>;</u>	်	ف	릐			+	ء	عإذ	٥	<b>∔</b>	PACING COMPONENT:	_	84	0	0	o		Ц	4	4	1	1	0.00	Σ Έ			
Ž	<b>7</b>	PROGRAM QTY		7 0					0.00				1		9			l			Į Š						0.00			1				NAME			
Ē	ION	MA		۲ g	3			8							1	T	T	Γ	T	T	0					00.		1	1	T	T	T		RER	NOI .		8
1		JGR.	- 1	7 5	+-	1	58.0	1	1		Н		8	7	T	┪	$\dagger$	T	o G	1	Ü		$\vdash$	H	0.09			7	╅	$\dagger$	十	H	TOTAL MONTHLY PRODUCTION	P	ATI		
4/1/2	AMM P	PR		PY P			150	╫	╁	H	0	흥	의	+	+	+	-	1	1 2	╬	1ª	-	0	0	9	H	$\dashv$	+	+	+	+	-	MI DDC	JF A(	의물		SEL
E L				ة اح	9.0	00	-	-	$\vdash$	Н	81	0.0	4	4	4	+	150			+	_	_	84.0	0.00			4	$\dashv$	4	1	1	$\perp$	P.M.	IAN I	MILLAN AND THE	ACCUDYNE CORP.	TO BE SELECTED
Ž L	E E	លកា	<b>~</b> >	.	4		Z X	A	A		吳	Š	Σ Σ	WC WC	ပ္ည		ALT	1		2			TOT	TOT	TOT	TOT	TOI.							2	אַ	¥	
PE	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	5		$\mp$	×		1	×	×		×	¥	×	4	4	Ŧ	Ŧ	F	F	Ŧ	F	F	×	×	×	×	¥	$\dashv$	#	+	+	Ħ		l <sub>o</sub>			
0	ᄺᄣ	FAC	<u>.</u>	1	1	1	_	1	1	H	<b>.</b>			- [		1	Į	1	1		1		7		3			1		1	1	1		E	S -	1/2/	7

											DATE			
	BUDGET ITEM	T 1	TEM	JUS	JUSTIFICATION SHEET	CAT	ION	SHE	田江		Feb	February 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	VITY					P-1 ITE	M NOME	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	MUNITION, A	RMY/A	CTIVITY 1	. AMMUN	AMMUNITION		CTG MORT	FAR 81M	CTG MORTAR 81MM ILLUM M853A1	853A1			)	(E76100)
	FY	96	FY	97	¥Ŧ	86	FŸ	66	FΥ	00	FY	0.1	02 FY	0.3
QUANTITY (THOUSANDS)	)-	-0-	-0-		-0-		23		17		18		<del></del> :	18/18
COST (In Millions)	w	-0-	-0- \$		-0-		\$ 11.8	8.	\$ 8.6		\$ 9.7		\$ 9.9/10.1	710.1

### DESCRIPTION:

for 50 seconds minimum at 525,000 candlepower. This item will be procured through the CAWCF at a fixed standard price. Cartridge will illuminate an area 207% greater than the M301A3. The M772, MTSQ Fuze used on this round will result in increased accuracy. The payload consists of a parachute and improved candle, which is ignited and base ejected as an aerial event upon functioning of the M772, MTSQ Fuze, 475 meters above the ground. The candle provides illumination cartridge has a range of 5,150 meters to burst, 72% greater than the standard M301A3 round, and will illuminate out to the full range of the M821 and M889, High Explosive (HE) cartridges (5,600 meters). The M853A1, Illumination The M853A1, Illumination Cartridge is an improved illumination round for use in the M252, 81MM Mortar System.

### JUSTIFICATION:

The FY 99 and subsequent procurements are to support War Reserve and training levels as the older M301A3 are consumed in training by the end of FY 99.

TYPE CLASSIFICATION DATE:

September 1991

RCS: DD-COMP(AR)-1092

DATE: FERRUARY 1997 NSN = 1315-01-289-9789 (E76100)

PCN:P02QM1DOC4Z

P-1 ITEM NOMENCLATURE: CTG MORTAR 81MM ILLUM M853A1 AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS) VEO. FV 97 APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION (OTY FY 96

	ri 96 (Qir		) F	FY 97 (QTY		) FY	98 (QTY		, F	FY 99 (QTY	Ϋ́	23315)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	УTУ	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL
HARDWARE									-			
1.LOAD, ASSEMBLE, AND PACK (LAP)			<b>-</b> ·						· <b></b> ·			
PROP CHG			• = • - • •							23315 95592 95592	251.77 1.68 2.07	5870 160 198
WW GR										1000		ָרָרָרָרָרָרָרָרָרָרָרָרָרָרָרָרְרָּרָרְרָּרְרָּרְרָּרְרָּרְּרָרְרָּרְרְּיִרְּרְּיִרְּרְּיִרְּיִרְּיִרְּיִירְ
5.1GN CTG M752A1 6.M9 FLAKE .010						·				24248	14.29	347
7.FZ M772			<b></b>						·	544	49.53	1551
SUBTOTAL			<u>. _</u> .									10101
PRODUCTION SUPPORT			_!						·- <u>-</u> -			00101
1. PRODUCTION ENGIN	ENGINEERING					· ·			·· · <b>-</b>			0
2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING	NG SE											1038
4.INTERIM TRANSPOR 5.INDUSTRIAL STOCK	(TATION SUPPORT					· <b>-</b> ·-						$\frac{117}{73}$
SIIBHOHNI												360
SUBJUIRE						<b></b>						1613
TOTAL P-1 LINE ITEM!	****	***	*	*****	*******	**************************************	****	******	· · ·	**************************************	**************************************	11770
			-			_			· <u>-</u> .		70.00	C / / T

PAGE NO. 2 of 6 P-1 ITEM NO. 17

N	ı
4	1
Ω	ł
0	ı
Ω	1
Н	ı
Σ	ı
Ò	1
2	1
0	ı
Д	1
	ţ
z	ı
υ	1
а	ı

		PROCUREMENT HISTORY & PLANNING	HISTORY	PLANNING		DATE:	DATE: FEBRUARY 1997	(Y 1997	1
CTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1315-0	1315-01-289-9789	68,	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNI	TION	CTG MO	TAR 81MM I	CTG MORTAR 81MM ILLUM M853A1	; ; ; ; ;	; ; ; ; ;	(E76100)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	1F YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1999 PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	IOC	DEC 98	SEP 00	23315	251.77			
2. PROP CHG M219 FY 1999 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 99	JUN 00	95592	1.68			
3. CONTAINER ASSY FY 1999 ARMTEC DEFENSE PROD COACHELLA, CA	SS/FP	IOC	MAR 99	MAR 00	95592	2.07			
4. NITROCELLULOSE WW GR A (LB)  FY 1999 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	66 NNC	DEC 99	1586	4.12			
				1111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

REMARKS:

PAGE NO. 3 of 6 17 P-1 ITEM NO.

1 1 1 1 1 1 1 1		; i i i i i i i i i i i i i i i i i i i	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	FEBRUARY 1997	(Y 1997	
APPROPRIATION/BUDGET ACTIVITY	UDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1315-01-289-9789	1-289-97		1 1 1 1
PROCUREMENT AMMI	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNIT	LION	CTG MC	RTAR 81MM I	CTG MORTAR 81MM ILLUM M853A1			(E76100)	00)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
5. IGN CTG M752A1	2A1	; { { { { { { { { { { { { { { { { { { {	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				 	1 1 1	1 1
FY 1999 M	FY 1999 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 99	JUN 00	24248	14.29			
6. M9 FLAKE .010 (LB) FY 1999 ALLIANT	19 FLAKE .010 (LB) FY 1999 ALLIANT TECH SYS RAPPORD. VA	SS/FP	IOC	66 NUC	DEC 99	544	49.53			
7. FZ M772 **										
FY 1999 JI SC	FY 1999 JUNGHANS SCHRAMBERG, GERMANY	SS/FP	IOC	MAR 99	JUL 00	24248.	146.44			
REMARKS:		1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			 	; ; ; ;	:

\*\* PACING COMPONENT

9 Jo 5 PAGE NO. 17 P-1 ITEM NO.

EXHIBIT P-5A

PROCUREMENT AMMUNITION, ARMY/ACT PROCUREMENT AMMUNITION, ARMY/ACT PROCUREMENT AMMUNITION, ARMY/ACT PROCUREMENT AMMUNITION, ARMY/ACT PROCUREMENT AMMUNITION, ARMY/ACT PROCUREMENT ACT PROCUREME	RODUCTION SCHEDULE (EXHIBIT P-	INITY 1. AMMUNITION CTG MORTAR 81MM ILLUM M853	ISCAL YEAR FISCAL YEAR FISCAL YEAR 97 0.0	AS OF GALENDAR YEAR 97 CALENDAR YEAR 98 CALENDAR YEAR 99	OCT NOW DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOW DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOW DEC JAN FEB MAR APR		0.00		00.00	00.0		33.0			0.00	0.00		33.0				D	_	00.0	0.00	0.00	0.00	24.0				PROCUREMENT LEAD TIME PACING COMPONENT	PRIOR AFTER TOTAL TOTAL UALT ALT PDN TOTAL COT 1 OCT 1 PDN TOTAL	35.00 87.00 0 6 6 21 27	INITIAL FY 00 PRINCIPLE OF THE PRINCIPLE	A DEPTABLE OF MILES OF
	RODUCTION SCHE	TIVIT	PROGRAM OTV PRIOR DUE	TO AS OF 96 CALENDAR YEAR	FY FY FY FY oct now dec Jan feb har app hay	96 66 86 26	0.00	0.00 0.00 0.00 0.00	00.00	0.00	23.0		p.00	0.00	0.00 0.00	0.00 0.00		33.0	0.00	0.00	0.00	_	_	34.0	0.00	0.00 0.00	0.00	24.0 0.00		TOTAL MONTHLY O ON EC O	00.0		2	15.00 35.00 87.00 0		

												DATE				
щ	BUDGET ITEM	E E	ITEM	JUS	TIF	JUSTIFICATION SHEET	ľľ(	SNC	HEI	£.		FE	FEBRUARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	TIVITY					Ë	P-1 ITEM NOMENCLATURE	NOMEN	CLATURE						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	MUNITION,	ARMY / 1	٠, ١	. AMMUNITION	ILTION		ָט	IG MORTA	R 81MIM	CTG MORTAR 81MM SMOKE RP M819	M819			:	(E76200)	00)
	FY	96	FY	97	FY	86 ,		FY	66	FY	00	FY	0.1	02 F	FY	03
QUANTITY (THOUSANDS)		-0-	-0-			-0-		24		30		19			19/19	
COST (In Millions)	₩	-0-	-0-\$		٠	-0-	₩	10.7		\$ 13.3		\$ 8.7		₩.	9.0/9.2	2

### DESCRIPTION:

The M819 is three to eight times more effective than the currently fielded M375A3 White Phosphorous (WP) Smoke Cartridge, Three rounds will provide effective ground screening for a duration of five minutes under ideal conditions. are ignited and base ejected upon functioning of the M772 Mechanical Time Super Quick (MTSQ) fuze, 175 meters above improved smoke cartridge provides an effective obscuring screen up to 93% of the maximum range of the M821 and M889 without the storage, handling and logistics restrictions associated with WP cartridges. This item will be procured The M819 RP Smoke Cartridge is an improved ground screening round for use with the M252 I81mm Mortar System. This 81mm High Explosive (HE) cartridges (5,600 meters). The payload consists of 28 red phosphorous (RP) wedges, which through the CAWCF at a fixed standard price. the ground.

# JUSTIFICATION:

The FY 99 and subsequent procurements are to support war reserve and training levels as the older M375 series white phosphorous cartridges will be consumed in yearly training by the end of FY 99.

TYPE CLASSIFICATION DATE:

September 1991

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

PCN:P02QM1DOC4Z

DATE: FEBRUARY 1997 NSN = 1315-01-199-8688 (E76200)	24287)	r rotal		3 4794 1 3699 164 206	361	28	9259	946 23 106 329	1471
: FEBRI 1315-0	(QTY	UNIT		197.38 146.44 1.65 2.07	4.12	49.53			444444
DATE NSN =	FY 99 (Q	ΔΙΛ		24287 25259 99577 99577	1652 25259	995			*****
	_	TOTAL							*  *  *  *  *  *
SANDS) RP M819		UNIT							****
ATURE:	FY 98 (QTY	QTY							[7,4]; 
	_	TOTAL		·	· • · · ·			·· <del>···</del> · · · · · · · · · · · ·	***
P-1 CTG		UNIT							* * * * *
	74 (QTY	QTY					-		********
AMMUNITION	) FY	TOTAL					<u> </u>		
IVITY 1.		UNIT							****
ACTIVITY N, ARMY/ACT	FY 96 (QTY	QTY						RING FION JPPORT	*****
APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION	[I4	ELEMENT OF COST QM: EACH	HARDWARE 1.LOAD, ASSEMBLE,	2.FZ M772 3.PROP CHG M218 4.CONTAINER ASSY 5.NITROCELLULOSE	WW GR A (LB) 6.IGN CTG M752A1 7.M9 FLAKE .010	(LB)	PRODUCTION SUPPORT -	1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT	SUBTOTAL ************************************

PAGE NO. 2 of 6 P-1 ITEM NO. 18

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY	XY 1997	1 1 1 1
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITY	TY 1. AMMUNIT	TION	P-1 IT CTG MO	P-1 ITEM NOMENCLATURE CTG MORTAR 81MM SMOKE	TURE MOKE RP M819	NSN = 1315-01-199-8688	1-199-86	.=====================================	(00
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	1F YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1999 PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	IOC	DEC 98	SEP 00	24287	197.38		i i i i i	1 1 5 1
2. FZ M772 ** FY 1999 JUNGHANS SCHRAMBERG, GERMANY	SS/FP	IOC	MAR 99	JUL 00	25259	146.44			
3. PROP CHG M218 FY 1999 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 99	30N 00	99577	1.65			
4. CONTAINER ASSY FY 1999 ARMTEC DEFENSE PROD COACHELLA, CA	SS/FP	IOC	MAR 99	MAR 00	99577	2.07			
5. NITROCELLULOSE WW GR A (LB) FY 1999 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	66 NUC	DEC 99	1652	4.12			
REMARKS:			; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! !	1

\*\* PACING COMPONENT

P-1 ITEM NO. 18 PAGE NO. 3 of 6

	1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	۲۷ 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1315-01-199-8688	1-199-86	288	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUN	ITY 1. AMMUNIT	ITION	CTG MC	RTAR 81MM S	CTG MORTAR 81MM SMOKE RP M819			(E76200)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN
6. IGN CTG M752A1 FY 1999 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	JAN 99	00 NDC	25259	14.29		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7. M9 FLAKE .010 (LB) FY 1999 ALLIANT TECH SYS RADFORD, VA	SS/FP	IOC	96 NUC	DEC 99	999	49.53			
REMARKS:		: : : : : : : :	; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

P-1 ITEM NO. 18 PAGE NO.

4 of 6

ROL SYMBOL	E76200	75		AUG SEP R	6	0.00	0.00	0.00	24.0	00.00	00.00	0.00	0.00	13.0	0	000	0.00	0.00	37.0		00.00	00.00	00.00	00.00	39.0		37.0					THE PROPERTY OF THE PARTY OF TH	CONTROL
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092			99	AFR MAY JUN JUL																								ONENT	N TOTAL		18	IT NT TTTNEIO	Komatti III II
RY 1997		FISCAL YEAR	CALENDAR YEAR	NOV DEC JAN FEB																								PACING COMPONENT	UALT ALT PDN	9	6 6 12		
DATE FEBRUARY	M819		86	JUN JUL AUG SEP OCT								207.0					100	707					28				0.702	REMARKS	<u> </u>	INITIAL	REORDER		
	P-1 ITEM NOMENCLATURE CTC MORTAR 81MM SMOKE RP	SAR		APR MAY																								EAD TIME	TOTAL	ROD. AFTER 1 OCT	21 24	21 24	
P	P-1 ITEM CTG MORTAI	FISCAL YE	0	SEP OCT NOV DEC							14						5-T										14	PROCUREMENT I	ADMIN LEADTIME	1 oct 1 oct	9	6 3	2
DULE (EXHIBIT			7.6	APR MAY JUN JUL AUG						52 11					E2 11							15					52 11				- INITIAL	REORDER	
SCHE	7 1. AMMUNITION	AL YEAR 97	CALENDAR YEAR	DEC JAN FEB MAR																								PRODUCTION RATES MONTHS TO	S MAXIMUM AFTER D	00 35.00 0	00 87.00 0		
PRODUCTION	LIVIT	ACCEP. BAL		1 0CT	96 96	0.00	0.00 0.00	0.00 0.00	0.00 24.0	0.00 63.0	0.00 14.0	0.00 27.0	0.00 0.00	0.00 13.0	0 00 0	00 03.0	0.00 14.0	0.00	0.00 0.00	NT: FZ M772	65.0 0.00	0.00 15.0	0.00 28.0	0.00 00.00	0.00 39.0		0.00 141			~			
	⋖ _	YIII C	PROGRAM CIT	FY FY FY	97 98 99	0000	00 0	00.0	24.0				0.00	13.0 0	0 0			0 0	37.0	PACING COMPONENT:			28.0 0.	0.00	39.0 0		PRODUCTION 0.	CHARLE GEGINAL	RAINOF ACTURER NAME & LOCATION	PINE BLUFF ARSENAL, AR	1 1		
	APPROPRIATION/BUDGET PROCUREMENT AMMUNITION	, St	NO.	>	1		4		1 K A	K MC		1 K MC		1 K MC			_	ALL	ALT.		K TOT	K TOT		K TOT	2 K TOT			-	NO.	[2			

	00		استد	고따	5	00.0	00.00	00.0	00.0		0.00	00.0	00.0	000	00.0		00	000	0.00	0.00	0.00			6			0.00	00.0			T	00.0	<u> </u>					
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E76200		Τ	SEP		عاد	2 0	٩	اء		0	0	0	0 0	1	+		٥	0	0	0	$\vdash$	+				0	0		+	+	0.					OUANTITY IN THOUSANDS	2 0
s To:	ĿΊ			AUG S		$\dagger$	+	$\dagger$			-	+	+	$\dashv$	$\dagger$	+	+	$\vdash$	$\vdash$	╁		$\forall$	+	+	+	+	$\vdash$	-	+	╁	+	+					11192	2
CONTR 1092				JUL /		$\top$	$\dagger$	$\dagger$					$\top$		$\dagger$	$\dagger$	+	+	1		H	+	+	+	+	+	+		-	+	+-	+	il				TH(	
VTS (				No	$\top$	$\top$	$\dagger$	T	-			$\top$		$\dagger$	$\dagger$	+	t	T	_		Н		$\dagger$	+	$\dagger$	T	╁	$\vdash$	$\dashv$	+	$\dagger$	H			_		Z	1
REMEN			0.5			T	T	T	T				1	$\dagger$	Ť	$\dagger$	T	1	T		H		$\top$	+	╁	+	1	H	+	+	+	H		. !	TOTAL	22 18	ITY	:
EQUI D-CO				APR MAY		T	T	T		П			7	$\top$	T	1	Τ	T	Τ			1	1			T	1		$\dagger$	T	1	Н		EN '	<u> </u>	7	ANT	
# D			YEAR	MAR			I	$oxed{\Box}$																T	Τ				$\top$		T	П		(PO)	PDN	2 01	90	1
		R C	CALENDAR YEAR	JAN FEB		$\perp$	$\downarrow$	L																							Τ			į.		12		
7		YEAR 02	3 3		4	1	$\downarrow$	Ļ	$oxed{oxed}$	Ц		_	1	1	1		$oldsymbol{\perp}$							$\perp$	L		Ц				L			PACING COMPONENT	AL'I'			
199		.AL		V DEC	+	+	+	╀	$\vdash$	$\square$		+	+	_	$\perp$	╀	1	-	_		4	_	$\bot$	╀-	$\vdash$	-	Ц		4	_	1_	Ц	1	Ϋ́Ε		9		
ARY		FISCAL		OCT NOV	+	╁	+	╀	H	H	-	$\dashv$		+	+	+	╀	-	Н	Н		+	+	+	╀	-		$\dashv$	+	+	╀	Н		1	UALIT.	9		
FEBRUARY 1997		124	┪	SEP 0	+	+	+	╁	$\vdash$	$\vdash$	$\dashv$	╁	+	+	+	╁	╁	┢	$\vdash$	Н	$\dashv$	+	+	+	╁	-	Н	+	+	-	╀	Н						
띮				AUG	$\dagger$	╁	+	$\dagger$	$\vdash$	$\dashv$	$\dashv$	$\dashv$	$\dagger$	+	t	$\dagger$	-	$\vdash$	Н		$\dashv$	1	╁	+	╁		$\vdash$	$\dashv$	+	+	-	Н	RKS		TNTTTAT.	REORDER		
$\overset{\mathrm{DATE}}{\overset{\mathrm{I}}{\longrightarrow}}$	M819			JUL	1	†	†	T		T	7	$\dagger$	†	$\dagger$	t	Ť	T			H	$\dashv$	$\dagger$	1-	$\dagger$	╁╌			十	$\dagger$	+	$\vdash$	Н	REMARKS		TNT	REO		
	당		150	N 55		I	I				]				I	I							T	T		П		$\dashv$	+	†-	$\vdash$	H	٦					
	CTG MORTAR 81MM SMOKE RP			жау	$\prod$	I	$\perp$		П			T	I	I	I	Γ													丁	I					TOTAL AFTER 1 OCT	~#		ľ
	SMO			APR		1	$\downarrow$	L	Ш		4	_	1	<u> </u>	_	_	L						$\perp$	L									-	프	TOTA	24	24	-1
	ENC ENC ENC	10	CALENDAR YEAR	B YAR	-	+	╀	╀	Н	$\dashv$	$\dashv$	4	+	$\bot$	+	$oldsymbol{\perp}$	L			_	4	_	$\bot$	_	L	Ш		4	<u> </u>	L	Ш	Ц	Ė		-¥		$\mathbb{H}$	ľ
	NOM 81	AR	LENDA	JAN FEB	+	╁	+	╀	H	$\dashv$	$\dashv$	+	╀	╀	╀	╀	L		Н	$\dashv$	4	+	╀	╀			_	$\perp$	$\bot$	$oldsymbol{\perp}$	Ш			LEAD	PROD.	21	21	
_	RIA	χ	1	DEC	+	+	+	$\vdash$	$\vdash$	$\dashv$	$\dashv$	╅	+	╁	╁	╁	-		$\vdash$	$\dashv$	+	+	╀	╁			$\dashv$	$\dashv$	+	$\vdash$	Н	$\dashv$	E	-] 	Α.			
4 '.'	. S	SCAI		NOV	$\dagger$	T	十	$\vdash$	Н	7	+	+	$\dagger$	十	t	T	┢	Н	H	$\dashv$	$\dagger$	+	╁┈	╁	Н		$\dashv$	$\dashv$	╁	H	Н	$\dashv$	MCTA	NE NE	FTER	8	m	ľ
a l		FIS		ğ			I		П			1	1	$\dagger$	T	T	Г		H	1	1	†	T	$\dagger$	Н			$\top$	$\dagger$	$\dagger$		$\exists$	1017	N S	A.F.		$\vdash$	Ġ
				SEP		L	$oxed{\Box}$		24					7	7						37											37	5	ADMIN LEADTINE	PRIO 1 OC	9	9	1
				AUG	-	1	ot	Ш	Ц	4	4	1	1	$\perp$	L	$\perp$	L	Ц			4	$\perp$		$oxed{oxed}$					$\perp$				١	`		IAL	DER	
(EXHIBIT				ъ Б	+	+	╀	$\vdash$	Н	$\dashv$	+	+	+	╀	╀	╀		Н	_	$\dashv$	4	4	4	-	Ц	Ц	4	33	1	Ш	Ш	4				INITIAL	REORDER	
1 1			8	MAY JUN	╁	╁	$\vdash$	Н	$\vdash$	$\dashv$	+	+	+	╁	╀	╁	-	Н		$\dashv$	$\dashv$	+-	╀	$\vdash$	Н	$\dashv$	+	+	+	$\vdash$	Н	$\dashv$	L	$\perp$		<del>-</del>	2	
DULE				X	+	╁	╁┤	H	$\vdash$	$\dagger$	$\dagger$	+	+	+	+	+	-	Н		╅	$\dashv$	+	+	╁	Н	$\dashv$	$\dashv$	+	+	$\vdash$	H	$\dashv$	E	×	Τ	П	$\top$	
	7		EAR	JAN FEB MAR APR	Ť	T	T	Н		1	1	$\dagger$	$\dagger$	十	T	t			$\dashv$		$\forall$	+	十		Н		$\dashv$	十	+	T	H	-	SHEW	MINIMUM 1 MINIMUM AFTER D-DAY	0	0		١
SCHEI	1. AMMUNITION	ж 8	CALENDAR YEAR	FEB									I														1	T	1	T	Ħ	٦	2	7 :		1 1	+	
	Ş	ΧEΑ	CALE		_	<u> </u>	Ц	Ш	$\sqcup$	1	$\perp$	1	ļ	L	L		_				$\bot$									L.			7 m.c	115	35.00	87.00		1
ð	A.	ΑΓ		Digg.	_	╄	$\sqcup$	Н	_	1	+	+	4	╀	╀	╀			4	4	4	4	$\downarrow$	_	Ш		_	4	$\bot$	1	Ц	4	2	<u>`</u>		1 1	+	١
Ы		J.S.T	99	OCT NOV	╁	┢	H	Н	-	+	+	+	+	╀	╀	╀	-	-	$\dashv$	+	+	- -	1	╀	Н	$\dashv$	_	+	+	+	Н	$\dashv$	T III	<b>i</b> :	2	35.00		
PRODUCTION	È	<u> </u>	<u>.</u>	_	18	le	8	8	0	٦,	el:		3 8	3 -	╀	╁	00	9	힑	힑	ᆉ	NG CHMBONENT. E7 M772		le	g	9	ᇹ	╛	+	-	H	9	7117		6.00 20.00	15.00	$\dagger \dagger$	١
	. 화				0,00	0	0.00 0.00	0.00 0.00	0.00 24.0	4	9	000	00.00	13.0	L	L	00.0	00.0	00	8	37.0	12	3	0.0	15.0 0.00	28.0 0.00	0.00	39.0	_	퇶	Ш	104 37.0	100	穩	505	12		١
I O	I BO	ACCEP.	<u>و</u> ع		0.00	00.0	18	18	힁		63.0	14.0		00.0			63.0	14.0	27.0	0.00	0.00	Ė		65.0	5.0	8.0	0.00	0.00				104	Γ		Τ~			
1	AR :		- 1	П	6	Ť			24.0	T	T	Ť	Ť	0		T	)	, ,	1	┪	97.0	Š		ľ			٦	39.0	┪	T	П	$\exists$		VAME				
		PROGRAM OTY		-		╀	Н	00.	4	+	+	+	=	1 -	-	╀	$\vdash$	$\dashv$	-	릙	뒤	<del>-</del>  }	<del>}</del>  -	-	Н	4	흸	8	+	+	H		[	ESE ESE	E E	NA NA		
Į S		RAM		-	<u> </u>	$oldsymbol{\perp}$	닎	<u>ا</u>	4	4	4	1	-10	4_	L	╀		Ц		8	4	<u> </u>		<u> </u>	Ц		8	4	4	↓_	Ш	IHI NO NO		JAR TTT	E SE	GERMANY	11	-
		800				L	0.00				$\perp$	2.0							27.0			DAG	4	L	Ш	28.0	$\bot$	$\perp$			Ш			Š		S,		
	E E	Δ,		FY	0.0	00.0					63.0	2					63.0	14.0	ſ					65.0	15.0							TOTAL MONTHLY PRODUCTION		MANUFACTURER NAME	PINE BLUFF ARSENAL.	MAN		Ī
H-4		លធា	œ:	,				П	1			ی ار	ار	ی ای	T	Π	ALL	ALL	ALL	II.	¥	$\top$		ToI	TOT		Ē	į	T		П			Ψ	PINE	JUNGHANS,		
		5		$\perp$	A		X X	KA	X	4		주 7 전 2	4 S			$\vdash$	$\square$	4	4		4	$\pm$	$\perp$	×	X	Ā		×	$\pm$	$\vdash$	$\boxminus$		T			Ħ	$\forall$	
PI	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	Ŋ	NO.				$ \  $				ᅵ,	٦,		_										2	2	7		7						FAC NO.	-	7		
عُلــا	c	F.	ž		l		Ш	Ш		$\perp$	$\perp$	$\perp$	1	Ĺ	L	L					$\perp$				Ш		$\perp$				Ц			_				┙

P-1 LINE NO. 18 PAGE NO. 6 OF 6 PAGES

											DATE			
H	BUDGET IT	H	ITEM	JUS	EM JUSTIFICATION SHEET	CAT	NOI	SHE	ET		H.	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TUNITION,	ARMY/	ACTIVITY 1	. AMMUI	NITION	i	CTG MOR	LAR 81M	CTG MORTAR 81MM PRAC 1/10 RANGE M880	0 RANGE	3 M880			(E1
	FY	96	FY	97	FY	86	ЪЗ	66	FY	00	FŸ	01	01 02 FY	FY
QUANTITY		18	ď		· () -		-0-		-0-		-0-		'	- 0 -
(Thousands)					•		<b>&gt;</b>		b					
COST (In Millions)	₩	9.9	-0- \$		-0- \$		-0-		-0-	<u> </u>	-0-		<b>ર</b> જ	/-0-

19800)

03

-0 -/

### DESCRIPTION:

cartridge, and the breech plug. The round is designed to be used 20 times (i.e., original firing plus 19 refurbishments). The M880 81mm mortar cartridge is a low-cost, short range, refurbishable practice round that will replace a mojority of detonating fuze, a ductile cast-iron body which approximates the shape of the 81mm HE service round, and an ignition cartridge which provides the limited propulsion requirement. After firing, the round is retrieved and refurbished. Refurbishment will be accomplished by placing the fuze, the obturating ring, range adjustment plugs, the ignition the standard High Explosive (HE) rounds used in the 81mm mortar training strategy. It consists of an M775 point This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price.

### JUSTIFICATION:

This is a training-unique item, not used in combat. Use of the M880 will expand the training environment by allowing If not produced, the high explosive rounds would have to be used in training, resulting in higher training costs. soldiers to train in locations other than full ranges. Procurement supports annual peacetime requirements.

TYPE CLASSIFICATION DATE:

1986

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

PCN:PO2QM1DOC4Z

DATE: FEBRUARY 1997

NSN = 1315-01-216-7071

(F19800)

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITI	T ACTIVITY TON, ARMY/A	CTIVITY 1	. AMMUNITION	Z	P-1 CTG	ITEM NOMEN MORTAR 81M	P-1 ITEM NOMENCLATURE: CTG MORTAR 81MM PRAC 1/10 RANGE M880	RANGE 1	4880	DATE: NSN = 1	DATE: FEBROARY 1997 NSN = 1315-01-216-7071 (E19800)	( 1997 16-7071 300)
	FY 96 (QTY	TY	17620) FY	FY 97 (QTY	Ā	) FY	FY 98 (QTY		) FY 99	YTQ) 66		
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ΥΤΩ	UNIT	TOTAL
HARDWARE												
1.LOAD, ASSEMBLE, AND PACK (LAP) 2.REFURBISH KITS	17620 334780	42.07 13.19	741! 4415!									
SUBTOTAL			5156						- <del></del>			
PRODUCTION SUPPORT												
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARG	ENGINERING SURANCE TESTING ANSPORTATION STOCK SUPPORT		160 7 7 201 2191									
SUBTOTAL			1408			<u>                                     </u>						
71111 P-1 LINE ITEM: 372.52 6564	; <del>*********</del> [!	372.52		* * * * * * * * * * * * * * * * * * * *	*******	* *	*****************************	*****	* * * * * * * * * * * * * * * * * * * *	*****	******	* * * *

P-1 ITEM NO. 19 PAGE NO. 2 of 4

	]	PROCUREMENT HISTORY & PLANNING	r HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	Y 1997	; ; ; ;
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1315 - 01 - 216 - 7071	01-216-70	171	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	VITY 1. AMMUNI	NOILI	CTG MO	RTAR 81MM P	CTG MORTAR 81MM PRAC 1/10 RANGE M880	E M880		(E19800)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1996 TBS	C/FP	IOC	MAR 98	MAR 99	17620	42.07	! ! ! ! !	1 1 1	; ; ;
2. REFURBISH KITS FY 1996 TBS	C/FP	IOC	MAR 98	MAR 99	334780	13.19			
	 	! ; ; ; ; ; !	 	} } } } 1			 	 	1

TBS - To Be Selected

REQUIREMENTS CONTROL SYMBOL ID-COMP (AR) 1092	E19800		DAR YEAR 99	JAN FEB HAR AFR MAY JUN JUL ANG SEP R	c		0.70.10.10.10.	0.00	00.00	CC	4.04.04.04.02.0									4.04.04.04.02.0					SUMASIIOHT NI YTITUO	CONTROLL III
DATE FEBRUARY 1997		FISCAL YEAR		JUL AUG SEP OCT NOV DEC																	REMARKS					PAGES
21)	P-1 ITEM NOMENCLATURE CTG MORTAR 81MM PRAC 1/10	FISCAL YEAR 98	CALENDAR YEAR 98	OCT NOV DEC JAN FEB MAR APR MAY JUN																	REMENT LEAD TIME	ADMIN LEADTIME TOTAL TOTAL	1 OCT PROD. AFTER 1 OCT	6 12 18	6 12 18	19 PAGE NO. 4 OF 4
(EXHIBIT			ж 97	MAY JUN JUL AUG SEP																				INITIAL 6	REORDER 6	P-1 LINE NO.
PRODUCTION SCHEDULE	IVITY 1. AMMUNITION		П	OCT NOV DEC JAN FEB MAR APR	00.00	18.0	0.00	0.00	0.00	0.00	18.0									18.0	RODITCT TON RATES I MONT	1-8-5 MAXIMUM A	3.00 4.00 10.00 0			
PR		S ACCEP. I	1 oct	FY FY FY FY	0.00	18.0 0.00	A 0.00 0.00 0.00	00.00	A 0.00 0.00 0.00	ALL 0.00 0.00 0.00	18.0 0.00									PRODUCTION 18.0		LOCATION	TO BE SELECTED			
4 K	PROCUR	FAC U			×	1	× /	¥	X												C C	NO.				

Ē.

	BUDGET ITEM J	BUDGET ITEM JUSTIFICATION RECORD	RECORD		DATE: February 1997	1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMM	CTIVITY: NA, ARMY/ACTIVI	TY 1. AMMUNITION	NC	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 120MM, FR F	NCLATURE: 120MM, FR PRAC	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 120MM, FR PRAC, M931 (E25507)		
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY (THOUSANDS)	37	127	69	22	92	95	89	47
COST (IN MILLIONS)	\$18.2	\$51.0	\$24.4	\$32.2	\$40.1	\$41.3	\$30.2	\$21.2

### DESCRIPTION:

The M931 120mm mortar cartridge is a low-cost, full range, practice round that will replace a percentage of the standard High Explosive (HE) rounds used in the 120mm mortar training strategy. It consists of a M781 point detonating practice fuze which simulates the multi-option fuze and provides flash, bang and smoke; a steel body which approximates the shape of the 120mm HE service round; and an ignition cartridge which provides the propulsion requirement. This item is code A: It has been approved for service use. This round is produced from a performance specification.

# JUSTIFICATION:

This is a training-unique item; not used in combat. Use of the M931 will reduce training costs and environmental impacts. The FY98 and FY99 procurements support annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type classification date: TC (STD) AUG 96 Acquisition manager: PM MORTARS

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 20

Page 1 of 6 Pages Exhibit P-40

				AMMUNITI	<b>AMMUNITION COST ANALYSIS</b>	NALYSIS						
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ry: My/activity	1. AMMUNI	TION							DATE: Eabruson 1007	1007	
CTG, MORTAR, 120MM, FR PRAC, M931 (E25507)	M931 (E25507									i colualy	166	
ELEMENT OF COST	FY96	QTY =	37,175	FY97	QTY =	126,500	FY98	QTY =	58,500	FY99	QTY =	76,500
	QTY (EA)	UNIT	TOTAL	QTÝ (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL
HARDWARE												
1. Modified System Contract, M931	37,175	276.79	10,290	126,500	253.88	32,116		,				
2. SHELL BODY	38,662	106.92	4,134	131,560	101.20	13,314	58,500 60,840	114.98	6,727	76,500	117.40 124.30	8,981 9,889
3. FIN ASSEMBLY M34 4. PROP CHARGE M233							60,840 239,850	38.70 13.28	2,355 3,185	79,560 313,650	39.51 13.56	3,144
5. IGNITION CTG M1005 6. FUZE TRNG M781		-,, _,, _,,_,,_					60,840 60,840	26.49 24.38	1,612 1,483	79,560 79,560	27.04 25.10	2,151
	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>											
SUBTOTAL			14,424			45,430			22,022			30,415
PROCUREMENT SUPPORT												
1. ENGINEERING SUPPORT 2. OHALITY ASSURANCE			1,073			1,096			773			787
	-		244			864 143			331			425
			!			}			CS S			305
SUBTOTAL			1,674			2,489			1.447			777
NON-RECURRING COSTS												-
1. First Article			2,146			,			-10			
Production Verification Lest     Calibration Lot						1,596			0			
SUBTOTAL			2,146			3,032			0			
TOTAL P-1 LINE ITEM		490.76	18,244		402.78	50,952		401.18	23,469	_	420.38	32,159
DD FORM 2448, AUG 89				P-1 ITEM NO	20		PAGE NO. 2	2 OF 6 PAGES	S			Exhibit P-5

	BUDGET PROCUREMENT HIS	HISTORY AND PLANNING	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IVITY: ARMY/ACTIVITY 1. AMMUN	ITION		P-1 ITEM N	P-1 ITEM NOMENCLATURE CTG, MORTAR, 1	OMENCLATURE: CTG, MORTAR, 120MM, FR PRAC, M931 (E25507)	C, M931 (E255	(20)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. Modified System Contract, M93 FY96	91 POCAL INDUSTRIES MOSCOW, PA	SS/FP	ТАСОМ	Feb 97	Aug 98	37,175	276.79	YES		
FY97	POCAL INDUSTRIES MOSCOW, PA	OPT	TACOM	Feb 97	Oct 98	126,500	253.88	YES		
									***************************************	
1a. LAP M931										
FY98	UNKNOWN	C/FP	TACOM	Mar 98	Sep 99	58,500	114.98	YES		
FY99	UNKNOWN	ОРТ	TACOM	Mar 99	Jun 00	76,500	117.40	YES		
2 <u>. SHELL BODY</u> FY96	CHAMBERLAIN MFG. SCRANTON, PA	SS/FP	ТАСОМ	Aug 96	Jun 97	38,662	106.92	YES		
FY97	CHAMBERLAIN MFG. SCRANTON, PA	ОРТ	TACOM	Mar 97	Jan 98	131,560	101.20	YES		
FY98	CHAMBERLAIN MFG. SCRANTON, PA	OPT	TACOM	Jan 98	Oct 98	60,840	109.46	YES		
FY99	CHAMBERLAIN MFG. SCRANTON, PA	OPT	TACOM	Jan 99	Oct 99	79,560	124.30	YES		
REMARKS: FY96/97 initial production is a combined buy sole source to the development contractor. All 120mm mortar shell bodies are produced on the same line. Sequence of production is arranged to minimize assembly line change over.	hbined buy sole source to the produced on the same line.	development con Sequence of proc	tractor. duction is arranged	to minimize	assembly line	change over.				

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 20

Page 3 of 6 Pages EXHIBIT P-5A

of 6 Pages	EXHIBIT P-5A
4	
Page	

	BUDGET PROCUREMENT HIST	HISTORY AND PLANNING	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IVITY: ARMY/ACTIVITY 1. AMMUN	ITION		P-1 ITEM N	P-1 ITEM NOMENCLATURE CTG, MORTAR, 1	IOMENCLATURE: CTG, MORTAR, 120MM, FR PRAC, M931 (E25507)	C, M931 (E255	(20		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
3. FIN ASSEMBLY M34										
FY98	VALENTEC SYSTEMS, INC	T40	TACOM	Mar 98	Dec 98	60,840	38.70	O N	YES	Mar 97
FY99	VALENTEC SYSTEMS, INC	OPT	TACOM	Jan 99	Oct 99	79,560	39.51			
4. PROP CHARGE M233										
FY98	UNKNOWN	OPT	TACOM	Mar 98	Jan 99	239,850	13.28	YES		
FY99	UNKNOWN	OPT	TACOM	Jan 99	Oct 99	313,650	13.56	YES		
5. IGNITION CTG M1005										······································
FY98	UNKNOWN	C/FP	TACOM	Mar 98	May 99	60,840	26.49	Q Z	YES	Mar 97
FY99	UNKNOWN	OPT	TACOM	Jan 99	Dec 99	79,560	27.04	9	YES	Mar 97
6. FUZE TRNG M781										
FY98	UNKNOWN	C/FP	TACOM	Mar 98	Mar 99	60,840	24.38	YES		
FY99	UNKNOWN	OPT	TACOM	Jan 99	Oct 99	79,560	25.10	YES		
REMARKS:										

FY96/97 initial production is a combined buy sole source to the development contractor.

All 120mm mortar shell bodies are produced on the same line. Sequence of production is arranged to minimize assembly line change over.

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 20

S	ACTIVITY: ION, ARMY/ACTIVIT				PRODUCTION SCHEDULE (	(EXHIBIT P-21)	BIT P.	(12														_			rebruary 1997	DD-COMP (AR) 1092				
о m σ > g		r 1. AMMUN	NOIFI								CTG	P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM, FR	MENCL 4R, 120N	P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM, FR PRAC, XM931 (E25507)	3AC, XM	1931 (E2!	5507)					1				1				
- x >	PROGRAM QUANTITY	ACCEPT	BALANCE	FISCAL YEAR 97	R 97						-	FISCA	FISCAL YEAR 98	8							FISCAL	FISCAL YEAR 99	66							
. §	2	PRIOR	DUE AS		5	CALENDAR YEAR		26						CALE	NDAR YI	CALENDAR YEAR 98							CAL	CALENDAR YEAR	YEAR !	66				
_	: 8	1001		OCT NOV DEC JAN	DEC. JA	N FEB	FEB MAR A	APR MAY	NS.	JU.	AUG SEP	200	NOV DEC		JAN FEB MAR	AAR APR	MAY	NON	JUL AUG	SEP	OCT A	NOV DE	DEC JAN	FEB	MAR	APR M.	MAY JUN	N JUL	AUG	SEP
1	RA DA	R	g	-	-		T	+		$\mathbf{l}$	+	I	+		$\dagger$	+		+	+	$oxed{\Box}$	_	+	+			+	+-	+		1
۷ .		٥	٥		Н			Н		Н	H		H			-		$\vdash$				+	-			$\vdash$	-	_		
· A 37		0	37					Н		H	H		H			H	Ц	Н	5	15	12.		H			H	H			
-+	-	•	127	+	+	$\prod$		$\dashv$	$\Box$	$\forall$	+		+	$\Box$				$\dashv$	H	-	-	15 1	15 15	15	9	16	16	<u></u>		
-+-	59	0	20	-	+	$\bot$	$\pm$	+	1	$\dagger$	+	1	+	1	+	+	1	$\dagger$	+	1	_	+	+			+	+	1		9
<b>V</b>	<i>"</i>	•	<u> </u>	+	+	$\prod$	1	+		$\dagger$	+	1	+	Ţ	+	+	1	$\dagger$	+	1	†	+	+	$\perp$		+	+	4		Ť
			$\dagger$	-	+	F		+		$\dagger$	+	1	-	-	$\dagger$	+		+	+	$oxed{\bot}$	_	+	+	$oldsymbol{ ilde{\bot}}$	1	+	+	$\downarrow$		
					$\vdash$		İ	-	L	T			$\perp$	L	1	+	L	$\dagger$	$\perp$	L	T	+	-			+	+	1		
								-		H	$\vdash$		$\vdash$	_	-	$\vdash$		+	+	L	$\perp$	-	<u> </u>					-		
										H			$\vdash$						_			-	_				-			
				7	+	7	_	-		$\dashv$			-			-						$\dashv$	_			Н	Н			
			+	7	+	7	$\exists$	+		$\dashv$	+	1	+		$\dashv$	+		+	$\dashv$	$\Box$		+	-			+	+	4		
	-		1	1	+	$\downarrow$	$\dagger$	+		$\dagger$	+	1	+		+	+	1	+	+	$\bot$	_	+	4		$\exists$	+	+	1		7
				+	+	$oxed{\bot}$	$\dagger$	+		+	+	1	+	1	+	+	1	+	+	floor	+	+	4	$\downarrow$		+	+	+		Ť
-					+		1	+		+	+		+	$\bot$	$\dagger$	+		+	+	Ţ	1	+	-	$oxed{\Box}$	$\perp$	+	+	1	ight d	$\dagger$
					+	Į	1	+		t	+	T	+	L	$\dagger$	+		+	+	L	T	+	-		1	+	+	1		1
					H			H		H	H				$\vdash$	-			+		T	+	-			$\vdash$	+	-		T
								$\sqcup$		H	Н		H		H			$\vdash$				Н	Ц							
			+					+		$\dashv$	$\dashv$	_	+	1	1	+		1	1	$\rfloor$	1	$\dashv$				H				
					$\frac{1}{1}$	$\prod$		+	$\downarrow$	+	+	1	+	1	+	+		+	+	1	1	+	4	$\Box$	$\exists$	-	+	-		7
와	+		+	1	1	1	+	+	1	+	+	1	+	1	+	+	1	+	+	I	+	+	$\dashv$	1	†		+			1
<		•	•	+	+	$\perp$	+	+	1		+	1	+	1	+	+	1	+	+	I	+	+	+	1	+	+	+	1		
. A 39	+	•	8	+	+	$\prod$	+	+	=	5	7	1	+	1	+	-	+	+	+	I	+	+	$\downarrow$	Ţ	+	+	+	4		1
1		٥	132	+	$\dagger$		$\dagger$	+	1	+	+	1	+	22	72 72	25 25	52	~	+	$\perp$	-		+	$\downarrow$	_	+	+	4		$\dagger$
A .	6	-	5 8	+	ļ		$\dagger$	+	I	+	+	İ	+	1	+	+	1	+	+	I	Ç	22 22	_			+	+	+		+
+	8	,	8		H			+-		Н	$\mathbb{H}$		Н	П	H	+		$\vdash$	-			+	-	L	1	+	+	+	I	1
	Total Monthly Production		300																10	15	15	15 15	5 55	÷.	9	- <u>6</u>	16	-		Ψ.
																									ļ	ł	1			
FACIL. MANUF	MANUFACTURER'S NAME		PRODUCI	PRODUCTION RATES		Months to			البيبا		ROCUR	EMENT	LEAD TI	PROCUREMENT LEAD TIME (MONTHS)	THS)		_	[ <u>#</u>	REMARKS											Г
	& LOCATION	Minimum		1.8.5 Maximum	F	гевсh твх			`		¥	ADMIN LEAD TIME	AD TIME	. 1		TOTAL		£	е зате	ine prod	uces sh	ell bodie.	s for all	120mm	The same line produces shell bodies for all 120mm mortar rounds	spuno.				
		Sust			***	after D day	à				BEFORE	<u> </u>	AFTER	PROD		AFTER		S	dneuce	of produ	tion is a	ırranged	to minir	mize ass	Sequence of production is arranged to minimize assembly line change over.	ine chan	ige over			
	POCAL INDUSTRIES, PA	2		4	+		Т					5	100	1	+	100	,													_
T		=		4	+		T			N TAL		†		2	+	77	_													
3 CHAMBERI	CHAMBERLAIN MFG, PA	2	1	25	+		T		=	REORDER	3			15	+	2	_	ō	*Quantities in thousands	in thous	ands									

P-1 LINE NO. 20 PAGE NO. 5 OF 6 PAGES

AMSMC FORM 966, 1 JUN 85

				9	PRODUCTION SCHEDULE (EXHIBIT P.	ν Z O	CHE	: o o :	E	EXH	18	ď.	21)					l													ă	DATE:	February 1997	ту 199	74	Pec 00.	REQUIREMENTS CO DD.COMP (AR) 1092	ENTS	REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	OL SY	MBOL
APPRO	PRIATIC	APPROPRIATIONBUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMYACTIVITY 1, AMMUNITION	VITY:	17 1. AMI	MUNITION												CTG.	P-1 ITEM NOMENCLATURE CTG. MORTAR, 120MM, FR PRAC, XM931 (E25507)	OMENC AR, 12	SLATU!	RE FR PR	AC, XN	A931 (E	E25507	د						_					_					
<u> </u>	UM E	PROGRAM QUANTITY	VUANTITY	ACCEPT	EPT BALANCE	FIS.	FISCAL YEAR 00	EAR	8								1	FISCA	FISCAL YEAR 01	2									FIS	CALY	FISCAL YEAR 02	03									
υ	د >	F7 F7	F F	PRIOR OT	OR DUE AS	ا يو			₹ S	CALENDAR YEAR 00	4R YE	AR OC								٦	CALENDAR YEAR 01	DAR Y	EAR (	5	İ				-			5	CALENDAR YEAR 02	R YEA	IR 02					Т	
z 0		96 97 98	8	10CT	- t- c	8	OCT NOV DEC	N DE		E.	W W	A A	JAN FEB MAR APR MAY	ND,	될	AUG	SEP	OCT	Š	SE	JAN FEB MAR APR MAY JUN	EB N	MAR	NPR N	AAY J	25	JUL AL	AUG SE	SEP OC	N NO	OCT NOV DEC	S	N FE	3 MAE	FEB MAR APR	₹ MAY	NOV.	N.	AUG	SEP	LATER
	П		+	Н	Н	$\vdash$	$\perp$	┼	+	-	+	+	+	4	$\perp$	_	$\perp$		1	$\dagger$	+	+	+	+	+	+	+	+	+	+	+	+	+	4	+	_	_		$\dagger$	+	
	∢			٥	٥	Н	Ц	Ц	$\sqcup$	$\sqcup$	Н	Н	H	L		L			1	T	$\dagger$	t	+	$\dagger$	+	+	+	+	+	_	+	+	+	+	$\downarrow$	$\downarrow$	$\downarrow$		+	+	
	∢ .	37	+	37	$\perp$	+	4	$\perp$	+	$\vdash \downarrow$	4	$\dashv$	4	Ц	Ц	Ц	Ц			Н	H	$\vdash$	H	H	H	H	+	H	+	+	+	+	$\vdash$	-	-	_			1	+	0
- '	۷ ۹	127		127 \$	+	+	-	-	+	+	+	+	+	$\downarrow$	$\downarrow$	$\downarrow$	$\int$		$\top$	$\dagger$	+	+	+	+	$\dashv$	$\dashv$	+	$\vdash$	H			H	H	Ц	$\sqcup$	$\sqcup$	Ц				٥
+	┿	6	11	0	2 12	2	2	2	_	+	+	+	+	12	2	9	5			+	+	+	+	+	+	+	+	+	+	+	+	+	+	_	4	_	_		$\parallel$		0
	П			Н	H	Ц	$\sqcup$	$\perp$	-	$\vdash$	$\vdash$	$\vdash$	1	-	—	+	-		T	$\dagger$	$\dagger$	+	+	+	+	+	+	+	+	+	+	+	+	1	4	1	_		$\dagger$	+	0
				$\perp$		4	$\sqcup$	Ц	Н	$\dashv$	H	H	$\sqcup$	Ц	Ц	Ц	$\prod$			$  \cdot  $	$\dagger \dagger$	H	H			+	+	+	+	-	+	+	1	1	+	1	$\perp$		Ť	_	
	Ŧ		+	1	+	4	4	4	+	4	$\downarrow$	+	4	1	_	$\perp$	$\prod$		$\forall$	+	+	+	$\forall$		$\dashv$	Н	H	Н	Н	Н	Н	H	H	L	L	_				-	
1	Ŧ		$\frac{1}{4}$	+	1	+	4	4	+	+	+	+	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\prod$		1	$\dagger$	+	+	$\dagger$	+	+	+	+	+	$\dashv$	Ц	$\sqcup$	Н	Ц	Ц	Щ						
	F		-	_	+	+	1	$\bot$	+	$\perp$	+	+	$\downarrow$	$\downarrow$	1	1	$\int$	I	+	$\dagger$	+	+	+	+	+	+	+	+	+	+	$\downarrow$	$\dashv$	4	_	_	_			$\dashv$		
L				1	-	1	1	1	$\perp$	+	+	+	$\downarrow$	1	1	$\downarrow$		I	$\dagger$	+	$\dagger$	+	+	+	+	+	+	+	+	4	+	+	4	1	4	4			+	+	
	П			Н			1	Ļ	$\perp$	$\vdash$	$\vdash$	+	-	_	L	L			$\dagger$	$\dagger$	$\dagger$	+	+	+	+	+	+	+	+	+	+	+	+	4	_	$\perp$			+	+	
	7			Ц		Ц	Ц	Ц	Ц	$\sqcup$	Н	$\sqcup$	Ц	Ц	Ц	Ц				H	+-	+-	+	-	+	+	+	+	+	+	+	+	1	1	_	$\perp$			Ť	+	
1	7		1	4	1	4	4	_	_	4	4	$\dashv$		$\sqcup$		Ц			Н	H	H	Н	Н	Н	Н	H	Н	Н	L	-	H	$\perp$	-	-	_		L			+	
	1		$\frac{1}{4}$	1	+	+	4	$\downarrow$	4	+	+	+	+	$\perp$	$\downarrow$	$\perp$	I		+	+	$\dashv$	+	$\dashv$	+	$\dashv$	+	+	4	4		Ц		Ц			Ц				-	
$\perp$	-		-	1	$\downarrow$	$\downarrow$	$\perp$	1	_	$\perp$	+	_	$\bot$	$\downarrow$	$\perp$			T	1	+	+	+	+	+	+	+	+	+	_	4	_	+	4	4	_		$\prod$				
	П			H		-		$\perp$	$\downarrow$	+	+	+	1	$\perp$	_			Ī	$\dagger$	+	+	+	+	+	+	+	+	+	+	+	+	+	-	_	_	_	$\perp$		+	+	
	1		1	$\downarrow$		Ц	Ц	Ц	Ц	$  \downarrow  $	Ц	Ц	Ц	Ц	Ц	Ц		П	H	Н	Н	$\vdash$	-	-	+	$\vdash$	ļ	$\vdash$	-	$\perp$	1	+	-	1		1		T	$\dagger$	+	
			1	4	4	4	4	4	4	4	4	4	$\downarrow$	_		$\int$		1	1	$\forall$	$\dashv$	$\dashv$	Н	H	ert	Н	Н	Н	Н			-	<u> </u>	L	_	_			+	+	
≓⊢		S		1	+	$\downarrow$	4	4	4	4	4	4	$\downarrow$	1		$\prod$		Ţ	+	$\dashv$	$\dashv$	+	-	$\dashv$	$\dashv$	Н	Н	dash	$\sqcup$	Ц	Ц	Н	L	L	L	_			$\dagger$	+	
7 6	< <	g	$\downarrow$	9		$\perp$		$\perp$	$\perp$	1	$\bot$	$\bot$	$\perp$	$\perp$		$\perp$		1	$\dagger$	+	+	+	+	+	+	+	+	+	_	4	4		$\sqcup$	Ц	Ц				H	Н	0
+-	+	132	+	3 5	$\bot$	_	1	$\downarrow$	$\perp$	$\downarrow$	$\downarrow$	+	1	_	$\perp$	$\perp$		1	+	+	+	+	+	+	+	+	+	+	4	1	1	1	4	4	1						0
╌	∢ .			62	$\vdash$	$\perp$	$\perp$	1	$\perp$	_	+	1	1		Ĺ			T	$\dagger$	+	+	+	+	+	+	+	+	+	$\perp$	$\perp$	-	+	1		_			1	+	$\downarrow$	0
9	۷ .		8	٥	Н	2	20	2	2	Ц	Ц	Н	Ц	Ц	$\Box$				$\vdash$	$\vdash$	$\vdash$	$\vdash$	$\vdash$	+	+	+	-	+	$\perp$	1	+	$\downarrow$	1	ļ	1		I	†	+	+	-
	$\exists$		Total Monthly		$\downarrow$		$\perp$	$\perp$	$\perp$	_	Ц.	$\perp$	$\perp$					$\sqcap$	+	$\vdash$	+	+	-	+	+	H	$\dashv$	$\sqcup$	$\coprod$	$\sqcup$	$\coprod$	-	$\parallel \parallel$	$\sqcup$				$\parallel$	$\dagger \dagger$	+	0
			Production	180	120	15	5	13	_	_	_	_	_	19	Ð	9	2	$\neg$		$\dashv$	-		$\dashv$	-	_													_			
ļ																																							-	-	
ĭ	FACIL.	MANUFACTURER'S NAME	ER'S NAME	Ш	PRODUCTION RATES	UCTIO	N N	S S	Щ	Months to	ء	_			$\sqcup$	Ä	CURE	PROCUREMENT LEAD TIME (MONTHS)	EAO	TIME (A	TNON	ङ्		П		H	REMARKS	iii													
Ŏ.	o.	& LOCATION	NOIL	ž	Minimum	1.8.5	1.8.5 Maximum	Enup		reach max	X .						ADMIN		AD TIN				TOTAL			Ĕ	same	The same line produces shell bodies for all 120mm mortar rounds	oduces	shell	bodies	for all	120mn	ı morta	ar rounc	\$					
	-	POCAL INDUSTRIES, PA	S, PA	Ĺ	oust 10	5	\$	-	-			_					- OCT	_	- 001	_	2		APTER 1 OCT			Š	dneuce	Sequence of production is arranged to minimize assembly line change over	fuction	is arra	nged t	to mini.	mize as	sempl	ly line c	hange	over				
	П	UNKNOWN			Đ	8	$\sqcup$		Ц						INITIAL	¥	•	++	9	H	2	H	24																		
		CHAMBERLAIN MFG, PA	G.PA		10	52	S		_			<del>_</del>		_	REORDER	DER	m	$\dashv$	8	$\dashv$	15	H	72	$\Box$		ō	antifies	*Quantities in thousands	spuesn											_	
ر _				_		$\perp$						_																		ı											

AMSMC FORM 966, 1 JUN 85

P-1 LINE NO. 20 PAGE NO. 6 OF 6 PAGES

	BUDGET ITEM J	BUDGET ITEM JUSTIFICATION RECORD	RECORD		DATE: February 1997	1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMI	CTIVITY: IN, ARMY/ACTIVI	TY 1. AMMUNITION	NC	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 120MM, HE/MO, M934A1 (E25501)	VCLATURE: 120MM, HE/MO, N	M934A1 (E25501)		
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY (THOUSANDS)	0	0	32	32	24	0	0	0
COST (IN MILLIONS)	\$0.0	\$0.0	\$29.9	\$29.9	\$22.9	\$0.0	\$0.0	\$0.0
						•		

#### DESCRIPTION:

The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, at a height over the target which is optimized for lethality. The round expands the total range 1000 meters and has a blast effect tail assembly, and projectile body with a TNT or composition B explosive fill. The round uses a proximity fuze setting to burst 1.5 times greater than the 4.2-in high explosive round it replaces. The M934A1 version incorporates the more reliable and countermeasure resistant M734A1 Multi-option fuze. This item is code A: it has been approved for service use.

## JUSTIFICATION:

Procurement supports annual peacetime training requirements and builds a war reserve inventory in accordance with the Army's This procurement is part of the total package fielding effort for the 120mm mortar system. procurement goals.

Type Classification Date: NDI - MAR 90 limited procurement - urgent(LPU); Enhanced Ammunition - M934 standard (STD) MAY92; M934A1 standard (STD) JUN 96. Acquisition Manager: PM MORTARS

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 21

Page 1 of 6 Pages Exhibit P-40

Table   Tabl	APPROPRIATION/BUDGET ACTIVITY:	LΥ:			AMMUNIT	AMMUNITION COST ANALYSIS	ANALYSIS				DATE		
The color   Color   Total   Color   Total   Color   Total   Color   Total   Color	CTG MOBTAB 120MM LEGAD AND	MY/ACTIVITY	1. AMMUNI	TION							February	, 1997	
F196   GTV = 0   F197   GTV = 0   F198   GTV = 31.53	CIG, MORIAR, IZUMIM, HE/MO, MS	34A1 (E2550	<u>-</u>			1315-01-33	35-5016 (C379				(mnico)		
Cost	ELEMENT OF COST	FY96	QTY =	0	FY97	QTY =	0	FY98	QTY =	32,499	FY99		31,502
National Color		QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (FA)	UNIT	TOTAL
17   17   17   17   17   17   17   17	HARDWARE							ì			(V-)		
17								32,499	178.99	5,817	31,502	184.37	5,808
1,200   1,20								33,799	122.26 39.60	4,132	32,762	137.68	4,511
Marker   M								33,799 133,246	26.49	895	32,762	27.04	886
AINER  BIOTAL  1.260  1.265  BIOTAL  SURANCE  ANSPORTATION  BIOTAL  STOTAL  1.101  1.1	6. FUZE M734A1 7. PA153 CONTAINER		***					33,799	312.33	10,556	32,762	319.65	10,472
### BTOTAL  LEUPEDRIT  WG SUPPORT SURANCE ANSPORTATION  BTOTAL  STOTAL  STOTAL  -1 LINE ITEM  1,260 295 775 314  2,644  2,644  2,644  2,644  2,644  2,644  2,644  2,644  2,644  2,644  3,730  1,730  2,948  PAGE NO. 2 of 6 PAGE N	8. PA154 CONTAINER							16,899	39.12	661	32,762 16,381	39.96	362 655
1.280   25,534   25	SIBTOTAL												
1.260   295   77	300000									25,534			25,770
NG SUPPORT     1,260       SUFANCE     295       T75     775       ANSPORTATION     314       BTOTAL     2,644       NG COSTS     1,730       STOTAL     1,730       -1 LINE ITEM     920.27       248, AUG 89     P-1 ITEM NO. 21	PROCUREMENT SUPPORT												
ANSPORTATION  BTOTAL  BTOTAL  314  2.644  2.666  2.										1,260			686
BTOTAL  VG COSTS  STOTAL  -1 LINE ITEM  2,644  2,644  2,644  1,730  22,  248,77  29,908  PAGE NO. 2 of 6 PAGES  2448,AUG 89  PAGE NO. 2 of 6 PAGES										775 314			301 519
BTOTAL     2,644       NG COSTS     1,730       3TOTAL     1,730       3TOTAL     920.27       2448, AUG 89     PAGE NO. 2 of 6 PAGES													007
VG COSTS       1,730         3TOTAL       1,730         -1 LINE ITEM       920.27       29,908       948.77       2         2448, AUG 89       P-1 ITEM NO. 2, of 6 PAGES       948.77       2	SUBTOTAL									2.644			27.0.0
3TOTAL -1 LINE ITEM 2448, AUG 89 P-1 ITEM NO. 21 PAGE NO. 2 of 6 PAGES	NON-RECURRING COSTS												2,0,2
JBTOTAL       920.27       29,908       948.77       2         M 2448, AUG 89       P-1 ITEM NO. 21       PAGE NO. 2 of 6 PAGES       948.77       2	First Article Test									1,730			
920.27 29,908 948.77 PAGE NO. 2 of 6 PAGES									-				2,043
P-1 ITEM NO. 21 PAGE NO. 2 of 6 PAGES	SUBTOTAL												- <u>, , , , , , , , , , , , , , , , , , ,</u>
P-1 ITEM NO. 21 PAGE NO. 2 of 6 PAGES	TOTAL P-1 LINE ITEM					<del></del>			920.27	29,908		948.77	29,888
	DD FORM 2448, AUG 89				P-1 ITEM NO.	21		٦,	- PAGE				

ľ

SPECS AVAIL NOW  YES YES YES YES YES YES YES YES		BUDGET PROCUREMENT HI	IISTORY AND PLANNING	LANNING		DATE	February 1997	1997			
CONTRACTOR         CONTRACT         CONTRACT         AWARD         FIRST         UNIT         AVAIL           CONTRACTOR         TYPE         BY         DATE         DELIVERY         QUANTITY         COST         NOW           UNKNOWN         C/FP         TACOM         Mar 98         Sep 00         31,502         184.37         YES           CHAMBERLAIN MFG         OPT         TACOM         Jan 98         Jan 99         33,799         122.26         YES           CHAMBERLAIN MFG         OPT         TACOM         Jan 98         Jan 99         33,799         127.68         YES           SCRANTON, PA         TACOM         Jan 98         Oct 98         33,799         39,560         YES           MALENTEC SYSTEMS, INC         OPT         TACOM         Jan 98         Oct 98         32,762         40,43         YES           UNKNOWN         OPT         TACOM         Jan 98         Nov 98         33,799         26,49         YES	APPROPRIATION/BUDGET ACPROCUREMENT AMMUNITION	TIVITY: I, ARMY/ACTIVITY 1. AMMUNI	TION		P-1 ITEM	NOMENCLATU CTG, MORTA	RE: R, 120MM, HE/MO,	M934A1 (E255	501)		
UNKNOWN         C/FP         TACOM         Mar 98         Dec 99         32,499         178,99           UNKNOWN         OPT         TACOM         Jan 98         Jan 99         31,502         184,37           CHAMBERLANI MFG         OPT         TACOM         Jan 99         33,799         122,26           SCRANTON, PA         OPT         TACOM         Jan 99         33,799         137.68           VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 98         Oct 98         33,799         39,60           MT. ARLINGTON, NJ         VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 98         Oct 99         32,762         40,43           WIT. ARLINGTON, NJ         TACOM         Jan 99         Oct 99         33,799         26,49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27,04	LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
UNKNOWN         C/FP         TACOM         Mar 98         Sep 00         31,502         178,99           UNKNOWN         OPT         TACOM         Jan 99         Jan 99         33,799         122.26           CHAMBERLAIN MFG         OPT         TACOM         Jan 99         Jan 99         33,799         122.26           SCRANTON, PA         OPT         TACOM         Jan 99         Jan 99         33,799         137.68           WALENTEC SYSTEMS, INC MT. ARLINGTON, NJ VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, INC VALENTEC SYSTEMS, I	1. LAP M934A1										
UNKNOWN         OPT         TACOM         Mar 99         Sep 00         31,502         184.37           CHAMBERLAIN MFG         OPT         TACOM         Jan 98         Jan 99         33,799         122.26           SCRANTON, PA         OPT         TACOM         Jan 99         Jan 00         32,762         137.68           VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           MT. ARLINGTON, NJ         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           WALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           WALENTEG SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           WALENTEG SYSTEMS, INC         OPT         TACOM         Jan 99         Nov 98         33,799         26.49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27,04	FY98	UNKNOWN	C/FP	TACOM	Mar 98	Dec 99	32,499	178.99	YES		
CHAMBERLAIN MFG         OPT         TACOM         Jan 98         Jan 99         33,799         122.26           SCRANTON, PA         CHAMBERLAIN MFG         OPT         TACOM         Jan 99         Jan 00         32,762         137.68           VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 96         33,799         39.60           MT. ARLINGTON, NJ         VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           UNKNOWN         OPT         TACOM         Jan 98         Nov 98         33,799         26.49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	FY99	UNKNOWN	OPT	TACOM	Mar 99	Sep 00	31,502	184.37	YES		
CHAMBERLAIN MFG         OPT         TACOM         Jan 98         Jan 99         33,799         122.26           SCRANTON, PA         CHAMBERLAIN MFG         OPT         TACOM         Jan 99         Jan 00         32,762         137.68           VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         33,799         39,60           MT. ARLINGTON, NJ         VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           UNKNOWN         OPT         TACOM         Jan 98         Nov 99         32,762         27.04	2. SHELL BODY									<del> </del>	
CHAMBERLAIN MFG         OPT         TACOM         Jan 99         Jan 00         32,762         137.68           SCRANTON, PA         VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 98         33,799         39.60           VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           MT. ARLINGTON, NJ         MT. ARLINGTON, NJ         TACOM         Jan 99         Nov 99         33,799         26,49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	FY98	CHAMBERLAIN MFG SCRANTON, PA	OPT	TACOM	Jan 98	Jan 99	33,799	122.26	YES		
VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 98         Oct 98         33,799         39.60           MT. ARLINGTON, NJ         VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           MT. ARLINGTON, NJ         TACOM         Jan 98         Nov 98         33,799         26,49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	FY99	CHAMBERLAIN MFG SCRANTON, PA	OPT	ТАСОМ	Jan 99	Jan 00	32,762	137.68	YES		
VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 98         Oct 98         33,799         39.60           MT. ARLINGTON, NJ         VALENTEC SYSTEMS, INC         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           UNKNOWN         OPT         TACOM         Jan 98         Nov 98         33,799         26,49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	3. FIN ASSEMBLY M31										
WILL ARLINGTON, NJ         OPT         TACOM         Jan 99         Oct 99         32,762         40.43           MT. ARLINGTON, NJ         UNKNOWN         OPT         TACOM         Jan 98         Nov 98         33,799         26,49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	FY98	VALENTEC SYSTEMS, INC	OPT	TACOM	Jan 98	Oct 98	33,799	39.60	YES		
UNKNOWN         OPT         TACOM         Jan 98         Nov 98         33,799         26.49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	FY99	VALENTEC SYSTEMS, INC MT. ARLINGTON, NJ	140	TACOM	Jan 99	Oct 99	32,762	40.43	YES		
UNKNOWN         OPT         TACOM         Jan 98         Nov 98         33,799         26.49           UNKNOWN         OPT         TACOM         Jan 99         Nov 99         32,762         27.04	4. IGNITION CTG M1020										
UNKNOWN OPT TACOM Jan 99 Nov 99 32,762 27.04	FY98	UNKNOWN	OPT	TACOM	Jan 98	Nov 98	33,799	26.49	YES		
	- 1	UNKNOWN	OPT	TACOM	Jan 99	Nov 99	32,762	27.04	YES	-	

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 21

Page 3 of 6 Pages EXHIBIT P-5A

- 1	с
3	F.
1	

	BUDGET PROCUREMENT HIST	HISTORY AND PLANNING	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TIVITY: , ARMY/ACTIVITY 1. AMMUNI	TION		P-1 ITEM I	P-1 ITEM NOMENCLATURE CTG, MORTAR, 1	IOMENCLATURE: CTG, MORTAR, 120MM, HE/MO, M934A1 (E25501)	M934A1 (E25	501)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
5. PROP CHARGE M234										
FY98 FY99	UNKNOWN	0PT 0PT	TACOM	Jan 98 Jan 99	Jan 99 Jan 00	133,246 129,158	13.28 13.56	YES		
6. FUZE M734A1										
FY98	UNKNOWN	C/FP	TACOM	Mar 98	Apr 99	33,799	312.33	YES		****
FY99	UNKNOWN	OPT	TACOM	Jan 99	Feb 00	32,762	319.65	YES		
7. PA153 CONTAINER									; - 3 d. d	
FY98	OMEGA CONTAINER INC.	· OPT	TACOM	Mar 98	Sep 98	33,799	10.81	YES		
FY99	UNKNOWN	C/FP	TACOM	Mar 99	Sep 99	32,762	11.04	YES		
8. PA154 CONTAINER						***				
FY98	BROCKWAY STD ATI ANTA GA	OPT	ТАСОМ	Mar 98	Sep 98	16,899	39.12	YES		
FY99	UNKNOWN	C/FP	TACOM	Mar 99	Sep 99	16,381	39.96	YES		
REMARKS: 120mm components (M31fin, M1020 ignition cartridge, M734A1 fuze, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds	020 ignition cartridge, M734A1	fuze, PA153 con	tainer and PA154 o	container) an	e procured on s	same contracts as fo	r other 120mm	mortar rou	nds.	

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 21

Page 4 of 6 Pages EXHIBIT P-5A

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092			1					32	35														0	34	84	5	_	-			
TROL:				3 SEP	$\perp \perp$					_	1	1		Ц	$\perp$		$\perp$		$\int$												
260 092				AUG	44		_	$\perp$	$\perp$																						
ENTS (AR) 1				JUL.	1				Ш		Ш			Ш	Ш		L														
REQUIREMENTS CO DD-COMP (AR) 1092				S																			12								
PD-0				APR MAY																			Ξ								
			66	APR																			F								
1997			CALENDAR YEAR 99	MAR																		$\prod$	7	T					enls		
February 1997			NDAR	FEB																П		П							dullen		
			CALE	JAN		$\perp \! \! \perp \! \! \! \perp$																	T					1	arual re		
DATE	1	FISCAL YEAR 99		DEC	Ш	Ш													T								1	100	e ilion		
		L YE		NOV																П	T	П	T					1			
		FISC,		9CT																								( AP delivery schedule based on section 1		ŧ	.
				SEP																П								podus		*Ouantities in thousands	
				AUG																П		П					3KS:	Alive Ve			
				텇											П												REMARKS	AP de	; ;	Onand	
				S N																		П	T							•	
				MAY																		П									
	25501		88	APR	Ш																	П					П	J 95	-	T	
	14A1 (E		YEAR	MAR																		П						AFTER	- OCT	2 2	
	O,M92		CALENDAR YEAR 98	EB	Ш						Ш										T			П			[ह्			T	
	URE .		CALE	, AN		$\perp \downarrow$			Ц	$\perp$																	NON	PROD	ŀ	2 5	
	CLAT	AR 98		DEC	Ш	$\bot$		ļ_	Ц	_	Ц				Ц												TIME	¥ .	5		
	P-1 ITEM NOMENCIATURE CTG, MORTAR, 120MM, HEMO,M934A1 (E25501)	FISCAL YEAR 98		δ	$\sqcup$	$\perp \downarrow$	_	$\perp$	Ц	$\perp$	Ц	╧	Ш			$\perp$	Ш		ot			Ш					PROCUREMENT LEAD TIME (MONTHS)	FORE AFTER	1 001	0	
	MOR	FISC		SEP OCT		11	$\downarrow$	_	Ц	ļ.,	Ш	$\perp$	Ш		Ц		Ц	$\perp$	Щ		$\perp$			Ш			MEN	A P	- 1		
	CTG	_		SE SE	- -	$\perp \downarrow$	1	$\perp$	$\sqcup$	$\perp$	Ц			$\perp$		$\perp$		$\perp$						Ц			SCUR.	BEFORE	I OCT	<b>6</b> 6	
				AUG	Н	44	4	↓_		_	Ц	$\perp$	Ш		Ц	$\perp$	Ц	$\perp$	Ц			Ц	┸	Ш			E E			IAL	
ĺ				키	$\sqcup$	$\bot \bot$	1	<u> </u>	$\sqcup$	$\downarrow$	Ц	_			Ш	1	Ш	$\perp$		4	1	Ц	_	Ш			Ш			INITIAL	
İ				JAN FEB MAR APR MAY JUN	$oxed{oxed}$	+	4	1	Ш	_	$\sqcup$	$\downarrow$		1	$\sqcup$	_	Ш	┵	Ш	$\perp$	$\perp$	Ц		Ц							
_				AM.	Н	$\bot\!\!\!\!\bot$	1	-	Ш	4	Ц	$\perp$	Ц			$\perp$	Ц	1	Ш	$\perp$			$\perp$								
P-21			R 97	RAPI	$\vdash$	44	$\bot$	1	Щ	ļ.,		+	Ц	$\perp$	$\sqcup$	$\bot$	Ц	_	Ц	4	$\perp$	Ц	$\perp$	Ц							
E .			CALENDAR YEAR 97	B	-	+	4	$\perp$	Н	4-	$\sqcup$	$\downarrow$	$\coprod$	$\perp$		-	Ц	$\perp$	Ш	_		Ц	$\perp$	Ц			٩	A ay			
X			ENDA	2	$\vdash \vdash$	+	+	L	Н	$\bot$	$\sqcup$	$\bot$	Н	_	Н	$\downarrow$	Н	1	$\sqcup$	4	$\downarrow$	Ш	$\perp$	$\sqcup$			Months to	reach max after D day			
<u>.</u>		71	₹	¥,	Ц.	++	+	₋	Н	$\bot$	$\sqcup$	$\perp$	Ш		$\sqcup$	4		Ļ	П	4	_	Ц	_	11			2				Ц
ם הר		EAR 9		>	-	H	+	_		+		$\downarrow$	$\sqcup$	$\perp$	Н	$\downarrow$	H	_	Н	4		Ц	1	Ц			SE .	E			
CHE		FISCAL YEAR 97		OCT NOV DEC		H	4	H	$\sqcup$	+	$\sqcup$	+	$\sqcup$	4	-	$\perp$	$\sqcup$	+	$\coprod$	4	_	$\sqcup$	4	$\sqcup$	_		A :	1.6.5 Maximum	1-1	S	Ц
N N		SE FIS	9 5	8	1	H	+	$\vdash$	H	+-		$\perp$		+	H	+	$oxed{\sqcup}$	+	$\sqcup$	4	+	igdash	$\bot$	$\sqcup$			PRODUCTION RATES	-	R	티	Ц
PRODUCTION SCHEDULE (EXHIBIT P-21)	UNITION	T BALANCE	PUE AS				8	32		_		_		_		1		_			$\perp$		8 8	5	28		PROD	Minimum	9	,	
Ø.	APPROPRIATIONBUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ACCEPT	PRIOR D	1007		$\coprod$	-	0								$\perp$		1	$\coprod$		$\perp$		0		0			ž v			Ш
	STIVIT	≥	٤			$\coprod$	$\perp$	Ц		1	Ш	1	Ц		Ц	1	Ц	$\perp$	$\sqcup$	$\perp$	$\perp$	Ц	$\perp$	Ц	g If		ME				
	TY:	JANTII	À	8	oxed	Ш	_	33			Ц		Ш			$\perp$	Ш		oxed				8		Total Monthly Production		R'S NA	<u>z</u>			
	CTIVI	AM OL	٤	8		$\prod$	33										Η			T	Γ	;	3	П	اءً ع		TURE	& LOCATION			
	APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY	PROGRAM QUANTITY	٤	93	T	П		П								T	$\prod$	T	$\prod$	1	T		T	$\prod$			MANUFACTURER'S NAME	<u>ت</u> •	₹		
	AMM!	Ē	Ł	98		$\sqcap$		$\top$		$\top$		T	П		$\top$	$\top$	$  \uparrow  $	$\dagger$	П	$\dagger$		$  \uparrow  $	T	H			MA		UNKNOWN	KDI. OH	
	MENT	oπ					4	. ⋖	$\dashv$	T	$\vdash \uparrow$	$\perp$				$\dagger$	$\vdash \vdash$	$\dagger$	$\dagger \dagger$	빩		<u></u>	< <	H			ــــــا		티	Ÿ	H
	ROPR	<b>₹</b>				$\prod$	ŀ		$\perp$	Ţ		I	П		$\Box$	Ţ	П	Ţ	П	M734A1 FUZE	I		-				FACIL	Š.	-	7	
- 1	F K	<b> ∢</b>	v	<b>z</b> 0			Ŀ	-				1_				1				Σ.		'	7 ~	11							

Comparison   Com							ď.	500C1	PRODUCTION SCHEDULE (EXHIBIT P-21)	CHE	פערנ	Ē	E E	Ë.	21)																			February 1997		DD-COM	DD-COMP (AR) 1092	260	DD-COMP (AR) 1092	
	ROPRIL	MENT,	VBUDGE	ET ACT	ARIMY:	ACTIVI	TY 1. AM	MUNITIO	z										P-1 II	EM NO WORTA	MENCI IR, 120	ATURE	E WO'N	934A1 (	(E25501	£						_					į			
1			8	DGRAN	1 au	Ě	<sup>1</sup> 0√	EPT BALA	FIS	CALYE	AR 90									FISCAL	YEAR	5								RI SI	CAL YE	AR 02				ļ				
25 20 32 10 11 11 11 11 11 11 11 11 11 11 11 11				<u>.</u> ج	<u> </u>			S S	S E			CALE	NDAR	YEAR	8							5	LEND,	IR YEA	F 01					-			CALENDA	R YEAR	05					
22 0 22 10 11 11 11 10 10 11 11 11 11 11 11 11										Ş F	/ DEC	NA.	FEB	MAR		A		AUG.	SEP	8		)EC J		B MAF	A APR	MAY	NS.	뉳				DEC		B MAR	APR				SEP	Z Z
22		+		+	₩	+		H	H	igdath	$\coprod$	П			$\dag \dagger$	+	$\coprod$	$\coprod$		$\dagger \dagger$	$\dagger \dagger$	H	+	+	$\downarrow \downarrow$	$\prod$		$\dagger \dagger$	+	+	$\perp \mid$									
32   0   32   10   11   11   11   12   10   11   11	1	+	+	+	+	+	+		+	+	_	$\Box$		$\top$	$\dagger$	+	+	$\perp$		1	+	$\dashv$	-	+	_	$\int$		$\dagger$	+	+	$\perp$		+			+				
32 0 32 10 11 11 11 11 12 11 11 11 11 11 11 11 11	П	$\forall$	H	H	H	H	H		H	$\sqcup$	Ц	П		П	Н	H	$\sqcup$	L				+	+	+	_			+	$\dagger$	+	-		+	-	Ī	+	-		+	
32 0 32		4	$\dashv$	+	$\rightarrow$	$\dashv$	4	$\dashv$	2	$\sqcup$	유	_	=	П	Н	H		Ц		П	Н	Н	Н	-	L			$\vdash$		-	L		-				-			0
Total Nominy	1	4	$\dagger$	+	7	2	7	+	2	$\downarrow$				1	+	$\dashv$	$\dashv$		2	-	듸	$\dashv$	$\dashv$			$\Box$			H	Н			Н							0
24 24 0 34 11 11 12 1 12 1 1 1 1 1 1 1 1 1 1 1 1	$\downarrow$	+	+	+	+	+	+	+	+	+		floor	I	7	+	+	$\downarrow$	$\perp$	I	$\dagger$	+	+	+	$\downarrow$	1	$\int$			+	$\dashv$	+		+	4						
Total Manifest Co. 24	T	$\dagger$	+	+	+	╁	+	+	+	+	1			T	t	+	$\downarrow$		I	T	$\dagger$	+	+	+	-	$\perp$		1	+	+	1		+	4	1	+	+		1	
Total Months  To	П	Н	H	H	H	-				-	L			T	$\vdash$	$\vdash$	-			T	$\dagger$	+	+	1	1	$oxedsymbol{oxedsymbol{oxed}}$		$\dagger$	+	+	+		+	1		+	+		$\dagger$	
34 34 0 0 34 11 11 12 11 11 11 11 11 11 11 11 11 11			H	$\dashv$	$\dashv$	$\dashv$	Н		Н		Ц			П	H	Н	Ц	Ц		П	$\vdash$		$\vdash$	-					-	L	-		-	L		-	-		$\dagger$	
34 34 0 34 11 11 12	1	$\dagger$	+	+	+	+	+	-	$\dashv$	4	1	$\Box$	Ī	$\top$	+	$\dashv$	_			$\exists$	+	$\dashv$	$\vdash$					Н		H	Н								T	
34 34 0 34 11 11 12	1	+	+	+	+	+	+	+	+	+	$\perp$	I		$\dagger$	+	+	4	$\int$	I	$\dagger$	+	+	+	$\downarrow$	$\downarrow$	$\int$		$\top$	+	+	-		+	_		+				
34 34 0 34 11 11 12	1	+	+	$\dagger$	+	+	+	1	+	1	_	I		†	+	+	+	_	$\prod$	$\dagger$	$\dagger$	+	+	+	1	$\perp$		$\dagger$	$\dagger$	+	-		+	4		+	_		1	
34 334 0 34 0 11 11 12 1 10 11 11 11 12 1 10 11 11 11 11 11 11 11 11 11 11 11 1	L	$\dagger$	+	+	+	+	+	+	+	$\downarrow$	$\perp$	I		+	+	+	+			†	$\dagger$	+	+-	4	$\perp$	Ţ		$\dagger$	+	+	-		+	_		+	+		+	
24 34 0 34 11 11 12 0 11 11 11 12 0 11 11 11 11 11 11 11 11 11 11 11 11 1	Ц	Н	Н	H	Н	Н	_		$\vdash$	-	L			T	$\vdash$	$\vdash$	1	Ľ			-	+	$\vdash$	-				t	+	+	1	T	+			+	$\downarrow$		1	
34 0 34 11 11 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\downarrow$	$\dashv$	$\dashv$	$\dashv$	+	$\dashv$	-	$\dashv$	$\dashv$	$\sqcup$				Н	Н	H	Ц	Ц		H	H	Н	Н	$\sqcup$	Ц	Ц		П	$\vdash$	H			-			-	-		+	
34 34 0 34 11 11 12	$\downarrow$	+	+	+	+	+	+	+	+	4					-	_	$\downarrow$	$\int$		1	$\dashv$	+	-	$\dashv$	_					$\dashv$	Ш								-	
34 34 0 34 11 11 12	$\downarrow$	+	+	+	+	+	+	+	+	4	1		1	$\dagger$	+	+	4	$\int$		$\dagger$	+	+	+	-	_	Ţ		$\dagger$	+	+	_		H							
34 34 0 34 11 11 12	T	$\dagger$	+	+	+	+	$\downarrow$	+	+	+		I	Ī	$\dagger$	+	+	+	floor	I	$\dagger$	$\dagger$	+	+	1	1	Ţ		$\dagger$	+	+	4		+	$\downarrow$		-	4			
34 34 0 34 11 11 12	444	4	+	+	+	+	+	$\frac{1}{1}$	+	-	$\perp$	I	Ţ	$\dagger$	+	+	$\downarrow$	I		$\dagger$	+	+	+	$\bot$	1	I		$\dagger$	+	+	1	1	+			+	4		$\dashv$	
A 34 0 34 0 11 11 12		╟	+	+	$\dagger$	+	+	+	+	+	1	I		$\dagger$	+	+	$\downarrow$	$\prod$	I	+	+	+	+	1	1	I		+	+	+	+	1	+			+	+		+	
A 34 0 34 0 11 11 12	I	+	-	t	+	+	-	+	+	+		I	T	$\dagger$	+	+	$\downarrow$	$\prod$		+	+	+	+	+	1	$\prod$	1	+	+	+	1	1	+	1		+	-		1	
- A 34 0 34 0 11 11 12	T	$\dagger$	+	$\vdash$	+	+	-	+	+	+				T	+	+	$\perp$	$\prod$	I	$\dagger$	$\dagger$	+	+	1	_	I	1	+	+	+	1		+			+	+		1	
Total Monthly Production 0 64 10 11 11 12 10 11 11 11 11 11 11 11 11 11 11 11 11	-	4	-	۲	Ä	H	٦	-	<del> </del> _	L	L			T	H	H	L			$\vdash$	+	-	$\vdash$	_			T		+	+	1		+	_		+	+		Ť	
0 64 10 11 11 11 11 11	-	4	$\dashv$	$\dashv$		4		Н	4	Ц	Ц		Н	$\vdash$	12	$\vdash$	Ц	П		H	H	Н	$\sqcup$	Ц						H	L		-			+	-		+	
0 64 10 11 11 11 11 11 11 11		$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	+	+	+	+	$\int$			+	+	+	_			$\dagger$	╁	+	+	4	_[				$\dashv$	$\sqcup$			H			H	L			
					Prod	Monthly			**		9	F									-							-									_			

ADMINLEAD TIME	PRC	CUREMENT	PROCUREMENT LEAD TIME (MONTHS)	(MONTHS)	
BEFORE AFTER PROD 1 OCT 1 OCT 6 6 21 8 18		ADMIN L	EAD TIME		TOTAL
1 OCT 1 OCT 6 6 21 3 6 18		BEFORE	AFTER	PROD	AFTER
3 6 18		I OCT	1 oct		I OCT
3 6 16	INITIAL	9	9	21	72
	REORDER	3	•	18	74

Months to reach max after D day

PRODUCTION RATES

MANUFACTURER'S NAME & LOCATION

FACIL. NO. Sust

UNKNOWN KDI, OH

REMARKS	LAP delivery schedule based on contractual requirements	*Quantities in thousands
REA	₹	,

ITEM NO. 21 PAGE 6 of 6

	BUDGET ITEM J	BUDGET ITEM JUSTIFICATION RECORD	RECORD		DATE: February 1997	1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTIVITY: IN, ARMY/ACTIVI	TY 1. AMMUNITIC	NO	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 120MM, ILLUM, XM930 (E25503)	VCLATURE: I20MM, ILLUM, X	(M930 (E25503)		
SOURCE STITLE	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTILY (THOUSANDS)	0	13	0	0	0	0	0	0
COSI (IN MILLIONS)	\$0.0	\$26.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

#### DESCRIPTION:

The round is used to illuminate target areas during night operations. It consists of a two-piece body filled with illuminating flare, fuze, 4.2-in illumination round it replaces. This budget line also funds the XM983 Infrared Illumination Round. The round is range matched to the 120mm high explosive (HE) and smoke cartridges. This item is code B: it has not been type classified and tail assembly. It bursts over a target, producing bright illumination which is more intense and effective than the and has not been approved for service use.

# JUSTIFICATION:

This procurement is part of the total package fielding effort for the 120mm mortar system. The FY97 procurement provides a calibration lot and builds war reserve inventory in accordance with the Army's procurement goals.

Type Classification Date: JUN 97 standard (STD).

				AMMUNITI	AMMUNITION COST ANALYSIS	NALYSIS						
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	IY: MY/ACTIVITY	1. AMMUNIT	NOI							DATE: February 1997	1997	
CTG, MORTAR, 120MM, ILLUM, XM930 (E25503)	930 (E25503)											
ELEMENT OF COST	FY96	QTY =	0	FY97	QTY =	13,222	FY98	QTY =	0	FY99	QTY =	0
	QTÝ (EA)	COST	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL
				13,222 13,751	328.79 263.40	4,347 3,622						
3. FIN ASSEMBLY M31 4. CANNISTER ASSY 5. IR CANNISTER ASSY				13,751 6,875 6,875	38.70 346.91 305.03	532 2,385 2,097					***************************************	
				13,751	25.89 12.98	356 714						
8. FUZE M776 9. PA 153 CONTAINER				13,751 13,751	126.77 10.78	1,743						
10. PA 154 CONTAINER				6,875	37.77	260						
SUBTOTAL						16,204						
PROCUREMENT SUPPORT												
1. ENGINEERING SUPPORT 2. QUALITY ASSURANCE 3. DEOCIE & ACCIEDTANCE	·					1,965 476 667						H
						187						
SUBTOTAL						3,295						
NON-RECURRING COSTS												
1. CALIBRATION LOT 2. FIRST ARTICLE /INITIAL PRODUCTION TEST	 JCTION TEST					3,990 2,329						11.2
												-
SUBTOTAL						6,319						
TOTAL P-1 LINE ITEM					1952.65	25,818						
DD FORM 2448, AUG 89				P-1 ITEM NO	22		PAGE NO. 2 OF 5 PAGES	OF 5 PAGE	S			Exhibit P-5

	BUDGET PROCUREMENT HISTORY AND PLANNING	HISTORY AND P	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TIVITY: , ARMY/ACTIVITY 1. AMMUN	TION		P-1 ITEM	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 1	IOMENCLATURE: CTG, MORTAR, 120MM, ILLUM, XM930 (E25503)	KM930 (E2550)	3)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. XM930/983, LAP FY97	PINE BLUFF ARSENAL PINE BLUFF, AR	SS/CR	TACOM	Jul 97	Apr 99	13,222	328.79	O <sub>N</sub>	YES	76 unf
2. SHELL BODY FY97	CHAMBERLAIN MFG. SCRANTON, PA	TGO	TACOM	76 lnC	Oct 98	13,751	263.40	O <sub>Z</sub>	YES	Jun 97
3. FIN ASSEMBLY M31 FY97	VALENTEC SYSTEMS, INC MT. ARLINGTON, NJ	140	TACOM	Apr 97	Jan 98	13,751	38.70	YES	O Z	
4. CANNISTER ASSY FY97	CRANE AAA CRANE, IN	SS/CR	N/A	76 Jul	Jun 88	6,875	346.91	O <sub>N</sub>	YES	76 unf
5. IR CANNISTER ASSY FY97 FREMARKS:	CRANE AAA CRANE, IN	SS/CR	N/A	76 Jul	Jun 88	6,875	305.03	ON	YES	Jun 97

REMARKS:
Pine Bluff Arsenal and Crane Army Ammunition Activity are government owned - government operated facilities. These activities are issued work orders, not contracts.
120mm mortar components (M31 fin, M234 prop charge, M1020 ignition cartridge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 22

Page 3 of 5 Pages EXHIBIT P-5A

	BUDGET PROCUREMENT HISTORY AND PLANNING	HISTORY AND P	LANNING		DATE:	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	, ARMY/ACTIVITY 1. AMMUN	ITION		P-1 ITEM N	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 1	IOMENCLATURE: CTG, MORTAR, 120MM, ILLUM, XM930 (E25503)	:M930 (E2550:	3)		
LINE ITEM! FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
6. IGN CTG M1020 FY97	UNKNOWN	C/FP	TACOM	Apr 97	Jan 98	13,751	25.89	YES	ON	
7. PROP CHG M234 FY97	UNKNOWN	ОРТ	TACOM	Apr 97	Jan 98	55,004	12.98	YES	ON	
8. FUZE M776 FY97	DIEHL GMBH SCHRAMBERG, GER	SS/FP	TACOM	Jun 97	Jan 98	13,751	126.77	YES	O <sub>N</sub>	
9. PA 153 CONTAINER FY97	OMEGA CONTAINER INC. ARCADIA, LA	140	TACOM	Mar 97	Sep 97	13,751	10.78	YES	O Z	
10. PA 154 CONTAINER FY97	BROCKWAY STD ATLANTA, GA	TOO	TACOM	Mar 97	Sep 97	6.875	37.77	YES	O	
REMARKS:										

120mm mortar components (M31 fin, M234 prop charge, M1020 ignition cartridge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 22

Page 4 of 5 Pages EXHIBIT P-5A

LATER 0 0 0 0 00 0 REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092 0 SEP AUG JU. JAN FEB MAR APR MAY JUN 2 2 2 2 3 CALENDAR YEAR 99 February 1997 DATE FISCAL YEAR 99 DEC SEP OCT NOV "Quantities in thousands JUL AUG S REMARKS FEB MAR APR MAY JUN P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM, ILLUM, XM830 (E25504) CALENDAR YEAR 98 TOTAL AFTER 1 OCT 27 75 5 PROCUREMENT LEAD TIME (MONTHS) PROD AAN 2 4 NOV DEC FISCAL YEAR 98 I OCT AFTER OCT BEFORE I OCT SEP AUG REORDER NITIAL 뒥 ş MAY Page 4 of 5 Pages PRODUCTION SCHEDULE (EXHIBIT P-21) FEB MAR APR after D OF 5 PAGES CALENDAR YEAR 97 Months to reach max AN DEC FISCAL YEAR 97 PRODUCTION RATES Š 8 8 5 S BALANCE DUE AS OF 1 OCT o 5 4 0 0 0 13 PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION Minimum Sust 5 PAGES ŧ 5 7 8 5 0CT ۰ 0 0 0 0 č Total Monthly MANUFACTURER'S NAME & LOCATION Production PROGRAM QUANTITY PINE BLUFF ARSENAL, AR Ŧ 8 APPROPRIATION/BUDGET ACTIVITY: F 8 DIEHL GMBH GER 5 ĭ 6 14 ĭ 8 < < < < < M776 F UZE 2 • A 2 • A 2 • A **ω μ α >** ۷. FACIL. Š

·	BUDGET ITEM J	BUDGET ITEM JUSTIFICATION RECORD	RECORD		DATE: February 1997	1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTIVITY: N, ARMY/ACTIVI	TY 1. AMMUNITIC	NC	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 120MM, SMC	NCLATURE: 120MM, SMOKE,	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 120MM, SMOKE, M929A1 (E25504)	(1	
	FY96	FY97	FY98	FY99	FY00	EV01	EVU	EVU3
QUANTITY (THOUSANDS)						2	701	201
	57	27	0	c	24	ç	ć	4
COST (IN MILLIONS)				,	7	7	77	61
	\$65.8	\$35.0	\$0.0	\$0.0	\$26.3	426.0	\$27.0	6
					2:03	\$20.3	0.72¢	\$24.9

### DESCRIPTION:

4.2-in smoke round it replaces. The round is range matched to the 120mm high explosive (HE) and illuminating cartridges. The M929A1 version is being procured beginning in FY96. It uses the advanced M734A1 Multi-option fuze. This item is code A: it has been type classified composition filler, fuze, and tail assembly. It bursts over or on a target, producing dense smoke which is 100 percent greater than the The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with smoke and approved for service use.

# JUSTIFICATION:

FY97 procurement builds war reserve inventory and supports annual peacetime training requirements in accordance This procurement is part of the total package fielding effort for the 120mm mortar system. with the Army's procurement goals.

Type Classification Date: NDI - MAR 90 limited procurement - urgent(LPU); Enhanced Ammunition - XM929, limited rate production (LRP) MAY 92; M929A1, standard (STD) JUN 96.

Acquisition Manager: PM MORTARS

P-1 SHOPPING LIST ITEM NO. 23

DD Form 2454, JUL 88

Page 1 of 5 Pages Exhibit P-40

ELEMENT OF COST    FY96   QTY = 56,6	S504) QTY = UNIT									\hb. >	
ELEMENT OF COST  ARDWARE SHELL BODY IGN CTG MOR1	QTY = UNIT			1315-01-34	1315-01-343-1940 (C624)				in the second		
ARDWARE LAP, M929A1 SHELL BODY IGN CTG M081	TIND	56,625	FY97	QTY=	27,499	FY98	QTY=	0	FY99	QTY =	0
ARDWARE LAP, M92941 SHELL BODY IGN CTG M981	COSI	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (EA)	UNIT	TOTAL	QTY (FA)	UNIT	TOTAL
SHELL BODY											
		17,623 10,159	27,499	318.01 190.07	8,745		•				
IGN CTG M1020	0 25.33	1,492	90	6				<b></b>			
4. FIN ASSEMBLY M31 58,890		2,309	28,599	38.70	740						
PROP CHG M230	12.71	2,951	112 7AE	12.00	1 163						
FUZE M734A1	,	23,544	28,599	341.32	9,761						
7. PA153 CONTAINER 58,890 8. PA154 CONTAINER 29,445	0 10.63 5 34.59	626 1,018	28,599 14,299	10.78 37.77	308 540						
ROYALTY 3% to General Dynamics SUBTOTAL		507 60,229			262 28,362				·····		
PROCUREMENT SUPPORT											
1. ENGINEERING SUPPORT 2. QUALITY ASSURANCE 3. PROOF & ACCEPTANCE		1,225 209 647			2,545 477 658						
. INTERIM TRANSPORTATION		304			362						
					· · · · ·						
SUBTOTAL		2,385			4,042						
NON-RECURRING COSTS 1. M734A1 MATL CHANGE 2. PVT		2,102			2,563						
SUBTOTAL		3,198		•	2,563						
TOTAL P-1 LINE ITEM	1162.24	65,812		1271.57	34,967	•				- · · · · · · · · · · · · · · · · · · ·	

	BUDGET PROCUREMENT HISTORY AND PLANNING	HISTORY AND P	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TIVITY: , ARMY/ACTIVITY 1. AMMUNI	TION		P-1 ITEM N	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 1	OMENCLATURE: CTG, MORTAR, 120MM, SMOKE, M929A1 (E25504)	M929A1 (E25	504)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. LAP, M929A1 FY96	PINE BLUFF ARSENAL PINE BLUFF, AR	SS/CR	ТАСОМ	Aug 96	May 98	56,625	311.22	YES		
FY97	PINE BLUFF ARSENAL PINE BLUFF, AR	SS/FP	TACOM	Mar 97	Nov 98	27,499	318.01	YES		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						·				
FY96	CHAMBERLAIN MFG.	SS/FP	TACOM	Aug 96	Jun 97	58,890	172.50	YES		
FY97	CHAMBERLAIN MFG. SCRANTON, PA	OPT	TACOM	Mar 97	Jan 98	28,599	190.07			
3. IGN CTG M981 FY96	GENERAL DYNAMICS MILAN, TN	C/FP	TACOM	Sep 96	Sep 97	58,890	25.33	YES		
3a. IGN CTG M1020										
FY97	UNKNOWN	C/FP	TACOM	Mar 97	Jan 98	28,599	25.89	YES		
4. FIN ASSEMBLY M31 FY96	VALENTEC SYSTEMS, INC	C/FP	TACOM	Sep 96	76 luC	58,890	39.21	YES		
FY97	MT. ARLINGTON, NJ VALENTEC SYSTEMS, INC MT. ARLINGTON, NJ	ОРТ	TACOM	Apr 97	Jan 98	28,599	38.70	YES		
REMARKS: 120mm mortar components (M1020 ignition cartridge, M31 fin, M234 prop charge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.	020 ignition cartridge, M31 fin,	M234 prop charge	e, PA153 container	and PA154	container) are	procured on same or	ontracts as for	other 120n	nm mortar	rounds.

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 23

Page 3 of 5 Pages EXHIBIT P-5A

	BUDGET PROCUREMENT HIS	HISTORY AND PLANNING	LANNING		DATE	February 1997	1997			
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITI	TIVITY: , ARMY/ACTIVITY 1. AMMUN	NOIL		P-1 ITEM P	P-1 ITEM NOMENCLATURE: CTG, MORTAR, 1	IOMENCLATURE: CTG, MORTAR, 120MM, SMOKE, M929A1 (E25504)	M929A1 (E25	504)		
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
5. PROP CHG M230 FY96	UNKNOWN	C/FP	TACOM	Apr 97	Jan 98	232,163	12.71	YES		
5a. PROP CHG M234 FY97	UNKNOWN	OPT	ТАСОМ	Apr 97	Jan 98	112,746	12.98	YES		
6. FUZE M734A1 FY96	KDI CINCINNATI, OH	SS/CPIF	TACOM	Apr 96	76 unf	6'050	446.60	YES		
FY96	KDI CINCINNATI, OH	SS/FP	ТАСОМ	Sep 96	Oct 97	49,840	324.09	YES		
FY97	KDI CINCINNATI, OH	OPT	TACOM	Mar 97	May 98	28,599	341.32	YES		
7. PA153 CONTAINER FY96	OMEGA CONTAINER INC.	C/FP	TACOM	Sep 96	May 97	58,890	10.63	YES		
FY97	OMEGA CONTAINER INC. ARCADIA, LA	ОРТ	TACOM	Mar 97	Sep 97	28,599	10.78	YES		
8. PA154 CONTAINER FY96	BROCKWAY STD	C/FP	TACOM	Sep 96	May 97	29,445	34.59	YES		
FY97	BROCKWAY STD ATLANTA, GA	OPT	TACOM	Mar 97	Sep 97	14,299	37.77	YES		
REMARKS:										

#### REMARKS:

M734A1 initial production will be procured by production option to development contractor.
120mm mortar components (M1020 ignition cartridge, M31 fin, M234 prop charge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.

DD FORM 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 23

Page 4 of 5 Pages EXHIBIT P-5A

LATER REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092 0 0 0 0 0 0 0 SEP AUG 귉 Š MAY JAN FEB MAR APR CALENDAR YEAR 99 February 1997 9 10 DATE FISCAL YEAR 99 9 DEC 9 OCT NOV ၈ 10 10 유 SEP 9 10 ę AUG REMARKS 6 6 8 킼 6 JAN FEB MAR APR MAY JUN 8 10 ₽ P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM, SMOKE, M929A1 (E25504) 유 CALENDAR YEAR 98 TOTAL AFTER 1 OCT 88 9 PROCUREMENT LEAD TIME (MONTHS) 8 23 FISCAL YEAR 98 JUL AUG SEP OCT NOV DEC 0 ADMIN LEAD TIME BEFORE AFTER 8 REORDER INITIAL 3 Š MAY 80 PRODUCTION SCHEDULE (EXHIBIT P.21) JAN FEB MAR APR CALENDAR YEAR 97 after D day Months to reach max NOV DEC ISCAL YEAR 97 1.8.5 Maximum PRODUCTION RATES 8 8 8 9 5 8 2 2 BALANCE OF 1 OCT DUE AS 2 2 22 PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION 8 27 0 72 6 8 0 107 0 Minhum 8.5 PRIOR ACCEPT 10CT 0 0 0 0 0 0 ۰ 8 9 0 č MANUFACTURER'S NAME **Total Monthly** Production GENERAL DYNAMICS, TN PINE BLUFF ARS., AR ACCUDYNE, WI PROGRAM QUANTITY č 66 & LOCATION APPROPRIATION/BUDGET ACTIVITY: ř 8 6 29 ¥ 2 M734A1 FUZE 8 R Ł 22 • ¥ <u>م</u> ۷. ა m c > < **4 4** ۷. FACIL. M745 FUZE Š . •

P-1 LINE NO.

\$

**•** 2

AMSMC FORM 966, 1 JUN 85

KDI, OH

PAGE NO. 5 OF 5 PAGES

\*Quantities in thousands

88

8

BUDGE	BUDGET ITEM JUSTIFICATION RECORD	IFICATION	RECORD		DATE: Februa	February 1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	(CTIVITY: NITION, ARMY//	ACTIVITY 1. AM	MUNITION	P-1 ITEM NOMENCLATURE: CTG, TANK, 120MM, APFSDS	ENCLATURE: OMM, APFSDS	P-1 ITEM NOMENCLATURE: CTG, TANK, 120MM, APFSDS-T, ALL TYPES (M829A2)	(M829A2)	
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY (THOUSANDS)	23	29	21	0	0	0	0	8
COST (IN MILLIONS)	79.8	103.6	72.9	0	0	0	0	73.9
DESCRIPTION								

### ESCRIPTION:

from the super depleted uranium (SDU) penetrator. A synthetic rubber seal is molded to the base of the sabot assembly to prevent the forward escape of The 120MM M829A2 Armor-Piercing, Fin-Stabilized, Discarding Sabot with Tracer (APFSDS-T), cartridge is designed specifically as a anti-armor kinetic energy round. This round is fired from the M256 120MM cannon mounted on the M1A1 Abrams tank. The propellant system consists of a combustible hot propellant gases. The M829A2, although using many similar components of the M829A1 APFSDS-T, has been technologically improved to provide incorporated a segmented graphite reinforced plastic sabot held in place by a plastic band which separates in flight to allow the discarding of the sabot significantly greater armor penetration capability than the older round. This item is Code A, approved for service use. This item has not transitioned to cartridge case mounted on a steel stub base and filled with a kerfed propellant. The propellant is ignited by a M129 electric primer. The projectile SMCA and will be procured as actual cost in FY98.

# JUSTIFICATION:

sole source multi-year production contract. Production of the M829A2 will provide a "leap-ahead" in tank ammunition technology to enable the U.S. tank FY1998 procurement builds war reserve inventory in accordance with the Army's procurement goal. The acquisition strategy for FY95-FY98 will be a fleet to defeat current and postulated threat armor well into the next century. Introduction of this technological advance complies with the objective of evolutionary advances in technology and represents the most effective tank round in production. The round will replace the currently-fielded M829A1 Armament Enhancement Initiatives fielding munition deterrent prior to the introduction of a new opposing armored threat. This round encompasses APFSDS-T as production levels rise.

Acquisition Manager: Project Manager, Tank Main Armament (PM-TMAS).

WEAPON STSTEM COST ANALYSIS	ALYSIS		A. Appropriation/Budget	n/Budget	B. WEAPON MODEL/SERIES	ODEL/SERIES	C. MANUFACTURER NAME	IRER NAME	D. DATE
EXHIBIT (P-5)			Activity Title/No.  Procurement Ammunition,	nmunition,	POPULAR NAME CTG, TANK, 120N	IE OMM, APFSDS-7	POPULAR NAME OIIN Ordnance Corp St CTG, TANK, 120MM, APFSDS-T, ALL TYPES (M829A2)	Olin Ordnance Corp St Petersburg, FL ALL TYPES (M829A2)	FL February 1997
			Cillipirectivity 1.						
Weapon System Cost Elements	Ident. code	FY 96 Unit Cost	22676 Total Cost	FY 97 Unit Cost	29495 Total Cost	FY 98	20650 Total Cort		
HARDWARE					1000	1600 1110	I Otal COSt	OIIII COSI	lotal Cost
1. COMPLETE ROUND		3366.01	76328	3370.21	99404	3370.21	69595		
SUBTOTAL			76328		99404		69595		
PRODUCTION SUPPORT  1. PRODUCTION ENGINEERING			1980		0370				
2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING			725		910		1825 725 775		
					7		0//		
SUBTOTAL			3480		4202		3325		
ATCH			000						
		3319.48	18808	٠, ۱	103606	3531.23	72920	- I	
			P-1 SHOPPI	SHOPPING LIST 24 PAGE 2 OF 5			Exhibit P-5	Exhibit P-5 Weapon System Cost Analysis	Cost Analysis

P-1 SHOPPING LIST 24 PAGE 2 OF 5

	BUDGET	PROCURE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	TORY A	ND PLAN	INING EX	HIBIT (P-5		A. DATE Februa	TE February 1997
B. APPROP PROCUREM	B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	1. AMMUNITIC	×			C. P-1 ITEM	C. P-1 ITEM NOMENCLATURE CTG. TANK. 120MM, APFSDS-T. ALL TYPES (M829A2)	IRE S-T. ALL TYPE	S (M829A2)	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. COMPLETE ROUND FY 96 Olin Ordns FY 97 Olin Ordns FY 97 Olin Ordns FY 98 Olin Ordns	TE ROUND Olin Ordnance Corp St Petersburg, FL Olin Ordnance Corp St Petersburg, FL Olin Ordnance Corp St Petersburg, FL Olin Ordnance Corp St Petersburg, FL	SSM-4/FP SS-OPTION SSM-4/FP	ARDEC ARDEC ARDEC	Mar 96 Feb 97 Feb 98	Jan 97 Dec 97 Dec 98 Mar 99	22676 23684 5831 20650	3366.01 3370.21 3370.21 3370.21	YES YES YES	0 0 0 0	
D. REMARKS FY95 IS THI	. REMARKS FY95 IS THE FIRST YEAR OF A 4 YEAR MULTI-YEAR	YEAR CONTRA	CONTRACT WITH AN ANNUAL OPTION CLAUSE TO INCREASE QUANTITIES.	NNUAL OPTIK	ON CLAUSE T	O INCREASE	QUANTITIES.			
DD Form 24	DD Form 2446-1, JUL 87	Previc	Previous editions are obsolete		P-1 SHOPPING LIST ITEM NO. 24		PAGE 3 of 5 ExhibitP-5A Procurement History and Planning	PAGE 3	of 5 History an	nd Planning

FY 98/99 BUDGET PRODUCTION SCHEDULE	PRODUC	TIOIT	N SCH			1	P.4 (TEM A		NOMENC! AT: IDE	101																		
						Ĺ		120		מימים ל	H	}	, ,		í	į			<u> </u>	Date								
	F	-						7	IN, IZUMINI, APPSUS-1, ALL 1 PPES (M829A2) (MYP)	Ď.	۲ ا	֓֞֝֞֝֟֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֜֡֓֓֡֓֡֡֓֜֡֓֓֡֡֡֡֡֡	PES (	M829/	(2)	(AA			_		ш.	ebrua	February 1997	26				
					BALANCE			ŀ	正	SCAL	FISCAL YEAR		97							_	FISCAL YEAR	. YEA	K		98		L	Ŀ
DESCRIPTION OF STATE				Œ.	ove S		8	1				CAI	CALENDAR YEAR	IR YE	AR		97		_			ن	CALENDAR YEAR	DAR	YEAR	98		<
TROCONEMEN TEAK		۷ >	÷	1 oc 1 96	0CT 96	oυ⊢	z o >	O W O	~ < z		<b>40</b> %	Σ∢≻	7 D Z	- n -	۷ ∩ ن	o m d	0 U F	z o >	ם ש נ	¬ < 2	и ш a	<b>2</b> < 0	440	7 D Z	70.	< ⊃ (	νшα	⊢шс
OLIN ORDNANCE CORP	FY96PA	Н	78	49	29	2	2	7	╀	╀	╀	╀	2	2	2	. ^	,	,	, -	+	╁	┿	╁	╀	+	╀	1	¥
	FY97 A		23		23			T	╀	-	_	╀	L	<u>.</u>	·	·	1	1	-	-	,	,	100	,	,	٢	,	ľ
	FY970A		9		9			T	<del> </del>	H	L	_	L				$\dagger$	$\dagger$	+	+-	+-	+	+	+	+	+	1	7 (
OLIN ORDNANCE CORP	FY98 A	_	21		21			T	+	+	$\perp$	$\downarrow$	$\prod$		T		1	$\dagger$	$\dagger$	+	+	+	+	+	+	1	1	0 7
		-						t	+	$\perp$	_	$\perp$	$\int$		T		$\dagger$	+	$\dagger$	+	+	$\frac{\perp}{1}$	+	+	$\bot$	$\downarrow$	1	7
		H					Ī	T	-	+	igert	igg	$oxed{\Box}$				T	+	$\dagger$	$\dagger$	+	+	+	-	+	1	1	
									$\vdash$	$\vdash$	L	_					1	t	t	$\dagger$	+	+	+	+	+	1	_	
							П			_		_							$\dagger$	+	+	+	-	+	+	-		
		$\dashv$					П		Н		L	L					T	+	_		+	+	+	+	+	_	_	
		4										_						$\vdash$	-	$\vdash$	-	-	-	+	+	-		
		4	-						_	L		L						$\vdash$	_	-	+	+	╀	+	$\perp$	$\downarrow$		
		_							Щ	L		L					T	$\vdash$	-	$\vdash$	+	+	+	+	$\perp$	_		
		$\dashv$							H	$\vdash$								$\vdash$	<del> </del>	+	$\vdash$	+	+	+	+	_	$\perp$	
		$\dashv$	1								Ц								H	_	-		-	+	_	-		
		+					7	+	$\dashv$	$\dashv$	4						H	H			-	<u> </u> 	-	-		_		
		+		†			7	$\dashv$	$\dashv$	+								-		_	$\vdash$		_	_				
		+	+	1			1	+	+	4	4	$\downarrow$				7	+	$\dashv$		$\dashv$	H						L	
	+	+	+	1			+	+	+	+	4	$\downarrow$					$\dashv$	1			Н	Н	H	_				
	$\dagger$	+	$\frac{1}{1}$	1			$\dagger$	$\dagger$	+	+	4	4					7	$\dashv$			-				L		L	
	$\dagger$	+	+				T	$\dagger$	+	+	$\downarrow$	_		]	7		+	+	$\dashv$	$\dashv$	$\dashv$	$\dashv$			Ц	Ц		
TOTAL	$\dagger$	+	128	49	79	٠	1	1	,	1	1,	٠	٠	r	,	,	1,	+	┿	+	+	+	$\dashv$	┥	+			
							z	┿	╁	+	╁	1 Σ	1 -	1 -	۷ <	2 8	v 0	+	+-	+	+	+	+		+	7	7 0	31
					90 C. G. C. C. C. C. C. C. C. C. C. C. C. C. C.	υ <b>⊢</b>	0 >	C	4 Z	<b>∀</b> ⊻	oα	Ϋ́	Σ	اد د	⊃ ຶ	шс	υ <b>⊢</b>	0 >	шО	< z	ы в В А	۵ ۵	< > 0 ش	) Z	· ⊃ -	: > (	ш	
MANUFACTURER'S	PRODUCTION RATES	STIC	N RAT		REACHED						PRC	CUR	PROCUREMENT LEAD TIME	T LEA	DI	₩ W			1	ł	1	1	Ι₹		1			
NAME & LOCATION	MINIMUM	1-8-5		MAXIMUM	₽							ADR	ADMIN LEAD TIME	AD T	Ψ		È	MANU-	-	٦	TOTAL	Т						
	SUST	4	-	1								PRIOR	2	¥	AFTER		FACI	FACTURING	ני	AF	AFTER							
OLIN ORDNANCE CORP	2.0	2	2.5	6.2								1 OCT			1 OCT		-	TIME		10	1 OCT							
		_	-			INITIAL	- 1					3			0			15	$\vdash$		15	_						
						REORDE		R (Prev	R (Previous Source)	rce)	_	3		Ì	0			18	_		18	T						
DD Form 2445, JUL 87	Previou	's editio.	Previous editions are obsolete	olete				ď	P-1 SHOPPING LIST	PING	.IST	! !										1						1

ITEM NO.

24

PAGE 4 OF 5

ExhibitP-21 Production Schedule

Follow   F		Г						T	Т			T	1	Г	Ī	Π	Т	1	1	Π										Π	Г	Т	<b>-</b> ш ∝	<	_		Г
The first condition   Schedule		-		_	-	+	+	╀	-	_			-	╄	-		+	+	$\vdash$	-	_	┝		$\vdash\vdash$	$\vdash$	H		-	-	-	_	┝			$\vdash$		
The part of the	•	ļ	оша		-	$\dashv$	+	_	L			_	ļ	-	-		-	H	-	-				Н	H	Н	_	┞-	$\vdash$	┼	<u> </u>	ļ		01	L		
Production Schedule		-	< ⊃ U		_	$\perp$	1	_	_					_	_	_	$oxed{\bot}$	L	L	_	L	L		$\vdash$	igspace	igspace	_	_	_	_	_	L	< ⊃ ©				
THERM  THE PRODUCTION SCHEDULE  FISCAL VEAR  OLIVERIA SSI  FISCAL TORRESON TATER OF THE NORMAL PROSENTAL TYPES (MESTAC) (NF)  FISCAL VEAR  OLIVERY  SOLITION SCHEDULE  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVE			רםי	_															_					Ш						_	<u> </u>	L	רני	EAR			
THERM  THE PRODUCTION SCHEDULE  FISCAL VEAR  OLIVERIA SSI  FISCAL TORRESON TATER OF THE NORMAL PROSENTAL TYPES (MESTAC) (NF)  FISCAL VEAR  OLIVERY  SOLITION SCHEDULE  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVE			¬⊃z																					Ш					<u> </u>	_		L	¬⊃z	IR YI	2		ı
THERM  THE PRODUCTION SCHEDULE  FISCAL VEAR  OLIVERIA SSI  FISCAL TORRESON TATER OF THE NORMAL PROSENTAL TYPES (MESTAC) (NF)  FISCAL VEAR  OLIVERY  SOLITION SCHEDULE  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVERY  OLIVERY  FISCAL VEAR  OLIVERY  OLIVE			Σ ∢ ≻																													L	≥∢≻	Ω.			l
The part of the			∢ a. ac																														4 O U	CAL	EAR	26	
The property of the property			5 < α																														≥ ∢ ⊻		٦Ł	iry 19	
The Proportion SCHEDULE			r m eo																												L	L	тпю		FISC	ebrua	
THE PRODUCTION SCHEDULE			γ <b>∢ Ζ</b>																														γ∢z				Date
THERE TO DUCTION SCHEDULE    PAITEM NOMENGLATURE   PAICH   PAI			эшО	ľ																													о ш о				
THERE TO DUCTION SCHEDULE    PAITEM NOMENCLATURE   PAITEM NOMENCLA			: 0 >																														z o >				i
Title   Production SCHEDULE   Pattern Momental Language   Production			) U F	,																													0 U F	8			
The production SCHEDULE   PATITEM NOMENCLATURE   PATITEM NOMENCLAT			эпг	,																													S P				
Titlery   Scale   Fiscal year   Scale   Fiscal year   Fi			ເ ⊃ ບ	1	Ī																												ر 10	AR AR			
Titlery   Scale   Fiscal year   Scale   Fiscal year   Fi			اد د ،	7	7																												ا ا ا	R YE			l
TUREA   SOLUTION SCHEDULE   SOLUTION SCHEDULE   SOLUTION   SOLUT			, ⊃ Z	1	1																												7 D Z	NDA	8	ق	
TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 99 CAL			: ∢ ≻	7		1	T																										¥ ≻	CAL		₹	Ī
TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 99 CAL		~~	( م ه	7	T	T	T																										A R		EAR	829A;	
TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 99 CAL			: < α	1																													Σ∢α		AL Y	S (M	
TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 99 CAL			. ш ю	ŀ																													r m oo		FISC	Σ	
FY97 PRODUCTION SCHEDULE  FISCAL YEAR 98  TYEAR 0 N D J F M P A U U U U U U U U U U U U U U U U U U			, < z	-1	1		Π																							-			¬ ∢ z			ALL	
FY97 PRODUCTION SCHEDULE  FISCAL YEAR 98  TYEAR 0 N D J F M P A U U U U U U U U U U U U U U U U U U			эшО	2 6	7																									2			C m O			DS-T	<u>"</u>
FY97 PRODUCTION SCHEDULE  FISCAL YEAR 98  TYEAR 0 N D J F M P A U U U U U U U U U U U U U U U U U U			: 0 >	~ ;	1																									2			z o >			APFS	A I
FY97 PRODUCTION SCHEDULE  FISCAL YEAR 98  TYEAR 0 N D J F M P A U U U U U U U U U U U U U U U U U U			, o ⊢	~ (	7																									2			0 U F	66		MM.	NC.
FY97 PRODUCTION SCHEDULE  FISCAL YEAR 98  TYEAR 0 N D J F M P A U U U U U U U U U U U U U U U U U U			, ш с	2	1																									2			wшσ			K, 120	NO.
FY97 PRODUCTION SCHEDULE  FISCAL YEAR 98  TYEAR 0 N D J F M P A U U U U U U U U U U U U U U U U U U			0 ⊂ ،	~]			Γ																							2			ע⊃ט	AR		TAN	TEM
TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 98 CALENDA  TYEAR 99 CAL			ر د ,	~	ŀ																									2			ר כ י	R YE		CTG	1-1
FY97 FY97 FY98 FY97 FY98 FY98 FY98 FY98 FY98 FY98 FY98 FY98			, ⊃ Z	7							Ì																			2			7 D Z	ENDA	66		
FY97  FY97  FY97  FY97  FY98  FY97  FY98			. ∢ ≻	~																										2			≥ < ≻	CAL			
FY97  FY97  FY97  FY97  FY98  FY97  FY98			( OL OC	7																										7			∢αα		EAR		
FY97  FY97  FY97  FY97  FY98  FY97  FY98			ē < α	~																										7			≥ < ¤		AL Y		JE
ANUFACTURER/ 98			rwn	2																											7		спю		FISC		
NEMENT YEAR			7 <b>∢</b> Z	7																											2		¬ ∢ z				SC
ANUFACTURER   98   98   98   98   98   98   98   9			2 m C	7																											7		O H O				NO NO
NCE CORP FY97  NCE CORP FY97  NCE CORP FY98  NCE CORP FY98  NCE CORP FY98  TOTAL  TOTAL  2  C C C C C C C C C C C C C C C C C			2 0 >	7																					·							7	z 0 >	86	Ì		JCT
ANUFACTURER/ JREMENT YEAR NCE CORP FY93 NCE			) U F	7																												7	0 U F				
ITEM/M PROCI PROCI PROCI III ORDINA III ORDI																													1	OLIN ORDNANCE CORP FY98	OLIN ORDNANCE CORP FY970PT	OLIN ORDNANCE CORP FY97	PROCUREMENT YEAR	ITEM/MANUFACTURER/			TY 98/99 BUDGET PR

DD Form 2445, JUL 87

P-1 SHOPPING LIST ITEM NO. 24

PAGE 5 OF 5

BUDGE	BUDGET ITEM JUSTIFICATION RECORD	FIFICATION I	RECORD		DATE: Februa	February 1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	(CTIVITY: VITION, ARMY//	ACTIVITY 1. AM	i	P-1 ITEM NOMENCLATURE: CTG, TANK, 120MM, HEAT/MP, ALL TYPES (M830A1)	ENCLATURE: OMM, HEAT/MF	, ALL TYPES (	M830A1)	
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY (THOUSANDS)	0	31	0	0	0	0	0	0
COST (IN MILLIONS)	0	6	0	0	0	0	0	0
DESCRIPTION:								

the side and rear aspects of tanks, and dismounted anti-tank and automatic weapons teams. The fixed round utilizes a combustible cartridge case affixed copper liner and booster. The base element is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational cannon mounted on the M1A1 Abrams tank. Appropriate targets include lightly armored vehicles with reactive armor, helicopters, buildings and bunkers, to a steel stub and loaded with granular propellant. The fin-stabilized, high chrome alloy steel projectile body is press-loaded with explosive, a precision The 120MM M830A1 Multi-Purpose (MP) cartridge is effective against light armor, air defense and materiel. This round is fired from the M256 120MM mode selected by the tank crew. Arming is accomplished through the ballistic environment of firing, set back and deceleration. This item is code A, approved for service use. This item has not transitioned to SMCA and will be procured as actual cost in FY97

# JUSTIFICATION:

FY1997 procurement builds war reserve inventory in accordance with the Army's procurement goal. The production and fielding of the M830A1 provides our soldiers need now. The M830A1 replaces the currently fielded M830 round to provide significantly enhanced capability to the 120mm gun tank fleet attacking helicopter platforms. In light of the proliferation and increasing lethality of helicopters on the modern battlefield, the M830A1 is a round which increased accuracy when compared to the currently fielded M830 High Explosive Anti-Tank Multi-Purpose with Tracer (HEAT-MP-T) cartridge, due to reduced time of flight. For the first time ever, the M830A1 provides the individual tank crew with the self-defense capability to engage and defeat

Acquisition Manager: Project Manager, Tank Main Armament (PM-TMAS).

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 25 PAGE NO.

Page 1 of 4 Pages Exhibit P-40

WEAPON SYSTEM COST ANALYSIS	ALYSIS		A. Appropriation/Budget	n/Budget	B. WEAPON MODEL/SERIES		C. MANUFACTUR	ER NAME	D. DATE
EXHIBIT (P-5)			Activity Title/No. Procurement Ammunition, Army/Activity 1.	nmunition,	POPULAR NAME CTG, TANK, 120N	, ALL 1	Alliant Techsyste FYPES (M830A1)	Alliant Techsystems Minneapolis, MM  YPES (M830A1)  Februar	M February 1997
Weapon System Cost Elements	Ident. code	FY96 Unit Cost	0 Total Cost	FY97 Unit Cost	8700 Total Cost	FY98 Unit Cost	0 Total Cost	FY99 Unit Cost	0 Total Cost
HARDWARE 1. COMPLETE ROUND				3150.00	27405				
SUBTOTAL					27405				
PRODUCTION SUPPORT  1. PRODUCTION ENGINEERING  2. QUALITY ASSURANCE  3. ACCEPTANCE TESTING					2216 700 650				
SUBTOTAL					3566				
TOTAL				3559.89	30971				
		_	ITEM NO. 25	PAGE 2	2 OF 4		Exhibit P-5	Exhibit P-5 Weapon System Cost Analysis	Cost Analysis

B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION  Cost Element Cost Element AND LOCATION  CONTRACTED AND LOCATION  AND LOCATION  SS/FP AMCCOM  FY97 Alliant Techsystems Minneapolis, M SS/FP AMCCOM  D. REMARKS	TY 1. AMMUNITION						rebluary 1997
CONTRACTOR AND LOCATION AND LOCATION & TYPE echsystems Minneapolis, M SS/FP			C. P-1 ITEM CTG, TANK,	C. P-1 ITEM NOMENCLATURE CTG, TANK, 120MM, HEAT/MP, ALL TYPES (M830A1)	RE IP, ALL TYPE	S (M830A1)	
echsystems Minneapolis, M SS/FP	CONTRACTED BY	DATE OF AWARD FIRST DATE DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
. REMARKS	SS/FP AMCCOM	May 97 Feb 98	8700	3150.00	YES	O <sub>N</sub>	
. REMARKS							
REMARKS		<u>.</u>					
DD Form 2446-1, JUL 87 Previous editions are ob	Previous editions are obsolete	P-1 SHOPPING LIST ITEM NO. 25		PAGE 3 OF 4  ExhibitP-5A Procurement History and Planning	t rocurement	History a	nd Plannin

HILDER NOITCH DECORPT AND ACTION SCHOOL	PRODI	) L	CANO	HEDIN		D 4 1T	17		TOTAL PROPERTY OF	Į						l		l	ŀ	l	l			l		l		Γ
						CTG.	TANK	120M	CTG, TANK, 120MM, HEAT/MP, ALL TYPES (M830A1)	AT/MF	ALL.	TYPE	S (Me	130A1	_				<u>~</u>	Date	ū	, circ	February 1007	Į.				
		S		ACCEPT.	BALANCE				FIS	FISCAL YEAR	YEAR		97			H			┨	E	FISCAL YEAR	YEAR	200		98			_
ITEM/MANUFACTURER/		ш	PROC	PRIOR	DUE		96	<del> </del>				SPI	CALENDAR YEAR	R YE	Å	1	97		$\vdash$			\ <u>\</u>	LEN	CALENDAR YEAR	EAR	98		۷
PROCUREMENT YEAR		د >	ΩTζ	T0 1 OCT 96	AS OF 1 OCT 96	၀ ပ	z o	O M	. А п п	≱ ∢	∢ △	≥ ∢	7.3	7.0	<b>∀</b> ⊃	SП	0 0	Z 0	7 4	W W	≥ <		Σ∢	7 3		< ⊃	S	: ⊢ ш
Alliant transferred	מפטאבו		20	cc		- -	<del>,</del>	+	+	┥	ď	>	z	-	ŋ	_		┩	4	$\dashv$	$\dashv$	-	-			ပ	Д	œ
Alliant techsystems	1 30F		S	3 (	35	4	m	4	3	<u>۳</u>	4	9					$\dashv$	2	5		_							
Alliant techsystems	FY9/	₹	מ	Э	O)	1	+	$\dashv$	$\dashv$	4							-	-		2	2	2	2	1				
		1					$\dashv$	$\dashv$	$\dashv$																			
						7	-		$\dashv$									-		_	_	_	_		_	_		
		$\dashv$					$\dashv$	$\dashv$						П	П		_	_	_	-			_	-	L			
						1	-	+	$\dashv$								Н				Ц							
		$\dagger$				1	$\dagger$	+	$\dashv$					1			$\dashv$			$\dashv$								
Alliant to abancotomor	EV07	5	ſ	1	1	$\dagger$	+	+	+	$\downarrow$	_	brack	_	$\dagger$	$\dagger$	+	$\dashv$	$\dashv$	_	$\dashv$	$\dashv$	$\dashv$						
Alliant techsystems	_	٤	7		7	1	+	$\dashv$	$\downarrow$	$\downarrow$				7	1		-	_		_				-	-			
		+				1	+	+	$\dashv$					7	+		$\dashv$				_							
		+					$\dashv$	4	$\dashv$						$\dashv$						_		_					
		+				1	$\dashv$	$\dashv$	$\dashv$												L					<u>_</u>		
		+				1	$\dashv$	$\dashv$	4	_					$\dashv$		-						_					
		†	1			1	$\dashv$	+	4	$\downarrow$			7				$\dashv$						_					
		†				+	+	+	4	_			1	1	$\dashv$	_	-	-	$\dashv$									
		+	1			+	$\dashv$	$\dashv$	$\dashv$					7	$\dashv$		$\dashv$	$\dashv$	_									
	Ì	$\dagger$	1	1		+	+	+	$\downarrow$	4				$\dashv$	$\dashv$	$\dashv$	-	-	_							L.		
		$\dagger$				1	+	+	$\downarrow$	_			7	$\dashv$	+	1	+	4	_	_	_							
	1	$\dagger$	1			+	+	+	4				$\dashv$	+	$\dashv$	+	$\dashv$	_	_	_								
		+	1			$\dagger$	+	+	1					$\dashv$	$\dashv$	$\dashv$	+	+	4	_	_							
TOTA		$\dagger$	37	22	73	╁	+	+	+	_[	ŀ	,	$\dagger$	$\dagger$	$\dagger$	$\dashv$	$\dashv$	-	-	$\dashv$	_							
	54, 54, 24, 54, 54, 54, 54, 54, 54, 54, 54, 54, 5	200 P . 10	0	က	2	┿	+	+	+	? :	4	?	1	+	+	+	$\dashv$	$\dashv$	+	+	7	7	7	2	-			
						) U F	:0>	, 4 Z	டயக	<b>Σ ∢ α</b>	< 0 C	Σ ∢ ≻	7 D Z		∢ ⊃ છ	ош с	2 0 > 	<u>ашо</u>	¬ < z	тшш	Σ ∢ α	< c a	Σ∢>	7 D Z	っ つ -	<b>∀</b> ⊃ (	SП	
MANUFACTURER'S	PRODUCTION RATES	UCT	ON R		REACHED						PRO(	PROCUREMENT LEAD TIME	MENT	LEAL	D TIM							RE	REMARKS	1	4			T
NAME & LOCATION	MINIMUM		1-8-5	MAXIMUM	∸							ADM	ADMIN LEAD TIME	AD TII	ME	$\vdash$	MANU-	ۈ	L	TOTAL	Å.	T						
	SUST	_									4	PRIOR	_	Ā	AFTER	_	ACTU	FACTURING		AFTER	2							
Alliant techsystems	2.0		5.6	5.0							,	1 OCT		-	1 OCT		TIME	¥.		1 OCT	5							
						INITIAL	ابِ					3			8	_		6	_	17		_						
						REORD		(Previo	ER (Previous Source)	(a)		3			8			6	L	17								
DD Form 2445, JUL 87	Previo	ipa sno	Previous editions are obsolete	obsolete				P-1	P-1 SHOPPING LIST	ING LE	ST								ļ									7
								ITE	ITEM NO.	25						à	PAGE 4 OF 4	OF 4			EX	hibi	t.P-2	1 Pro	ExhibitP-21 Production Schedule	ion	بوطي	9

ExhibitP-21 Production Schedule

DATE

							•		1		ţ		0	
MOTERTOROGICA	a maroarra										r'	FEBRUARY 1997	1881	
AFFROFRIATION/BUDGET ACTIVITY	BUDGET A	CTIVITY					P-1 IT	EM NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION,	ARMY/	ACTIVITY 1.		AMMUNITION		CTG TAN	K 120MM	CTG TANK 120MM TP-T M831/M831A1	WR31A1			,	(003 3300)
														(0000017)
	FY	FY 96	FY	97	FY	86	FY	66	FY	0	Ϋ́		01 00 EV	7.0
QUANTITY		40	03							3		10	70	
(Thousands)		) *	n n		0.8		89		89		69		<u> </u>	89,69
COST														
(In Millions)	*0	29.1 \$	\$ 54.6		\$ 52.2	2	\$ 46.5		\$ 47.5	₩	49.5		\$ 50.	50.4/50.9

### DESCRIPTION:

chemical energy service round (M830). This round is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2 Abrams tank. The projectile is inert and is composed of a steel spike aluminum body, ring, stabilizer, nylon obturator, and tracer. The stabilizer spins the round in flight. This item is Code A, approved for service use. The 120mm M831A1 Target Practice-Tracer (TP-T) is a target practice round that simulates the ballistics of the This item will be procured through the CAWCF at a fixed standard price.

# JUSTIFICATION:

and maintain gunnery proficiency. FY 98/99 procurement supports annual peacetime training and builds a depot level This is a training unique item; not used in combat. Tank crews conduct live fire training with this round to meet in accordance with the Army's procurement goals. The acquisition strategy for FY 95 - FY 98 is a multi-year production contract.

# TYPE CLASSIFICATION DATE:

1993

P-1 SHOPPING LIST ITEM NO. 26 PAGE NO. 1 of

Page of Page Exhibit P-40

DD Form 2454, JUN 86

.-

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1315-01-369-6612 (E73300)

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG TANK 120MM TP-T M831A1

TOTAL  $\begin{array}{c} 4103 \\ 100 \\ 462 \\ 289 \\ 1422 \end{array}$ 6376 46525 40149 40149 68125) UNIT 589.34 682.93 (QTY QTY 68125 66 FY 45069 4606 113 518 324 1596 45069 52226! TOTAL 79772) UNIT 564.97 654.69 (QTY 79772 QTY FY 98 49128 49128 54576! 5408! 5448 TOTAL 40 92817) UNIT 529.30 587.99 (QTY QTY 92817 97 FY TOTAL 22823 22823 707 32 262 87 970 4172 29053! 40396) UNIT 564.97 719.21 (QTY 1.PRODUCTION ENGINERING
2.QUALITY ASSURANCE
3.ACCEPTANCE TESTING
4.INDUSTRIM TRANSPORTATION
5.INDUSTRIAL STOCK SUPPORT
6.CAWCF GAIN/LOSS SURCHARGE QTY 40396 96 FΥ TOTAL P-1 LINE ITEM! PRODUCTION SUPPORT 1.COMPLETE ROUND ELEMENT OF COST OM: EACH HARDWARE SUBTOTAL SUBTOTAL

P-1 ITEM NO. 26 PAGE NO.

of 5

7

EXHIBIT P-5

4

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	DATE: FEBRUARY 1997	RY 1997	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1315-01-369-6612	1-369-6	512	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI		TION	CTG TA	CTG TANK 120MM TP-T M831A1	-T M831A1		; ; ;	(E73300)	(0)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN
1. COMPLETE ROUND			f 						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1996 ALLIANT TECH SYS, INC NEW BRIGHTON MN	CM-2/FP	IOC	JAN 96	OCT 96	24696	# 494.85			
FY 1996 OLIN CORP	CM-2/FP	IOC	JAN 96	96 AON	15700	# 603.16			
FY 1997 ALLIANT TECH SYS, INC NEW BRIGHTON, MN	CM-3/FP	IOC	NOV 96	OCT 97	64637	# 509.40	YES	ON	
FY 1997 OLIN CORP	CM-3/FP	IOC	96 AON	VOV 97	28180	# 601.17	YES	ON	
FY 1998 TBS FY 1999 TBS	CM-4/FP C/FP	10C 10C	JAN 98 JAN 99	OCT 98 OCT 99	79772 68125	564.97	YES	NO	
REMARKS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						; ; ; ; ;	: : : : : : : : : : : : : : : : : : : :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

# FY 96 AND FY 97, ACTUAL CONTRACT PRICE (AVERAGE OF BASIC AND OPTIONS) MULTI YEAR PROCUREMENT FY 95 - FY 98
FY 98, TBS - TO BE SELECTED, ALLIANT/OLIN 60/40 SPLIT FY 99, TBS - TO BE SELECTED

EXHIBIT P-5A

P-1 ITEM NO. 26 PAGE NO. 3 of 5

.

. t:

ŧ

٠.

L			1 11100	•		CANADA INGGISTA OF STRUCTURE	
APPR	TATAGE	A PPROPERTATION / BINGET ACTIVITY	CODOCITON SCHEDULE (EXHIBIT	(71)	FEBRUARY 1997	DD-COMP (AR) 1092	
PRO	CUREMEN	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	TIVITY 1. AMMUNITION	P-1 ITEM NOMENCLATURE CTG TANK 120MM TP-T M831A1		E73300	9
FAC	ប្រ	PROGRAM QTY	ACCEP. BAL FISCAL YEAR 97	· ·	FISCAL YEAR		2 75
0 0			To As or 1 oct	CALENDAR YEAR 98	CALENDAR YEAR	66	ر اسع
	>	FY FY FY FY 99	OCT NOV DRC JAN FEB NAR AFR NAY JUN JUL AUG SEP	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG	SEP OCT NOV DEC JAN FEB MAR	JUN JUL AUG SEP	ΉX
-	K A	200	18.0				6
7		21.0					00.0
<b>1</b>		25.0	0.00 25.02.02.02.02.02.02.02.02.02.02				3
2		15.0				) C	
П	KA	65.0	65.0	8.08.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	0 00		00.0
2	KA	28.0		0.4 0.4 0.4 0.4			
3	K A	80.0	0.00 80.0		70 70 70 70 70 07 07 07 07 07 09 09 90 90	C	
4	K A	68.0	0.00 68.0			?	68.0
-	WC WC	00	4.000.00				6
2	K MC	3.00	3.00 0.00				00.00
1	K MC	3.00	0.00 3.00 1.01.01.0				00.00
2	K MC	2.00					
~	X WC	3.00	3.00	. oi. oi. oi.			00.0
3		11.0	0.00		1.50.501.01.01.01.01.01	.01.01.01.01.00	00.00
4	K K	8.00	00.00 8.00				8.00
~	K FMS	13.0	13.0 0.00				9
1	K FMS	4.00	0.00 4.00 1 1.01.01.01.0				
2		00.2	2.00				00.0
	K FMS	0.00	0.00 0.00			) C	00.0
		00.0	9.0				00.0
	K FMS	0.00	0 0.00 0.00				0.00
	ALL	62.0	59.0 3.00 3.0				6
		51.0	36.02.02.03.03.03.03.03.03.03.03.04.04.0				00.00
	ALL	0.96	6	.09.08.08.07.08.07.08.08.08.08	0.60		00.0
	ALL	91.0	0.00 91.0		6.56.57.07.08.08.08.	.08.08.08.08.08.08.08.08.00.00	00
		TOTAL MONTHLY PRODUCTION	74.0 3022.02.02.08.06.03.03.03.03.03.03.04.04.09.09.08.08.07.08.07.08.07.08.07.08.09.06.	.09.08.08.07.08.07.08.07.08.08.08.0	56.57.07	.08.08.08.08.08.08.08.09.076.0	0.0
į	┝	ers adding smith	PRODUCTION RATES MONTHS TO		REMARKS CACAMINA OF CACAMINA CO.	× 4	<u> </u>
۳. NO		& LOCATION	MAXIMUM AFTER D-DAY		ANGEGLED BI SISTEMS CONTRACTORS M865/M831 LINE SHARE	loks.	
-	ALL.	ALLIANT TECH, MN	9.00 24.00 5	1 oct	PRODUCTION RATES ARE STAND ALONE	LONE	
~	OLI	OLIN ORDNANCE, FL	12 00 15 00 16.00	4 9 13 BOTH	BOTH CONTRACTORS LAP AT IOWA AAP FOR	AAP FOR FY94-96	-
J 4	1382 1382 1382 1382 1382 1382 1382 1382	ALLELAN I / OLLIN	40.00 5	4 9 13 FY95-	FY95-98 MULTI YEAR PROCUREMENT 60/40		
					WOX .	SOME THE THOUSANDS	

PAGE NO. 4 OF 5 PAGES

P-1 LINE NO. 26

				P	PRODUCTION	JCT1	NO NO		SCHEDULE	ULE		(EXHIBIT	BIT	4	21)					Ad	DATE	FEBRUARY	1	1997			REQUI	REMENT MP (AF	FS COT	REQUIREMENTS CONTROL SYMBOL DD-CCMP (AR) 1092	SYMEG	Г
PROC	OPRIAT UREMEN	APPROPRIATION/BUDGET APPROCUREMENT AMMUNITION,	~ ー	ACTIVITY , ARMY/ACTIVITY	r TIVIT	¥ 1.	AMI	( 1. AMMUNITION	ION					CTG	TANK	ITEM NOMENCLATURE TANK 120MM TP-T M83	MENC MM T	NOMENCLATURE	1RE	-											573300	5
FAC	ខ្មា	PROG	PROGRAM OTY	ACCEP.	BAL	FISC	:AL	YEAR	8					FIS	FISCAL YEAR	YEAR	5					F.	FISCAL		YEAR							3
NO.	ıα:		X	I		66		CALEND	CALENDAR YEAR		8					CALEND	CALENDAR YEAR		010			$\dashv$		۲	V.C.	U.C. CALENDAR YEAR		0.2			Ť	< <sup>[-1</sup>
	>	FY FY	FY			OCT NOV	N DEC		JAN PEB MAR	APR	MAY JUN	JUN JUL AUG		SEP OCT NOV	OV DEC	JAN FEB	EB MAR	APR	MAY JUN	N JUL	AUG ST	SEP OCT	OCT NOV	) DEC	IAN FE	JAN FEB MAR	APR	ž Š	JUN JUL	AUG	SEP	ria:
].		96P 97	98   99	Т		$\exists$	4	1	+		Н		$\sqcup$		$\prod$		$\mathbb{H}$		Н		-	-			-	┝		$\vdash$	-			T
	1	21.0	1	21.0	9	1	4		$\dashv$	1	-		4		$\dashv$				_		_	L			-	_			_		0	0.00
7		21.0		21.0	0.00	_	4		$\dashv$		$\dashv$						_		-		-	-			-	-		-	_		0	00.0
		25.0		25.0	0.00	$\exists$	4		$\dashv$		$\sqcup$						_				H	┞			$\vdash$	$\vdash$		$\vdash$	├		С	0.00
7	KA	15.0	$\frac{1}{2}$	15.0	0.00		_		$\dashv$		Н						-	L	├	L	$\vdash$	$\vdash$	L		╁	H		-	├-		0	000
	K A	65.0		65.0	0.00		Ц				Н					L	$\vdash$	L	-	L	-	-	I		+	-	L		-		9	00.0
7	K A	28.0		28.0	0.00				Н		L						$\vdash$		┞		$\vdash$	$\vdash$		İ	H	-		╁	+			000
~	A X		90.0		0.00				$\dashv$		Н						-		$\vdash$			H		┞	-	-	ļ	-				000
4	KA	$\frac{1}{2}$	68.0	00.00	68.0	68.05.05.05.05.05.05.	900	ام م	<u>망</u>	05.05.07	6.40	힉	.07.0				Н		$\vdash$			L			-	_		$\vdash$	-			0.00
			1			+	$\perp$	1	4		$\perp$				$\Box$		$\dashv$		$\vdash$		H				Н							
-	ည်	00.		00.	0.0	$\dashv$	-	1	$\dashv$		4		4	$\dashv$	$\neg$	_	$\dashv$		-		_					_					o	0.00
7	ξ	3.00		3.0	3.00 0.00	-	$\dashv$		-		_		$\exists$								_				_	L					С	0 00
-1		3.00		3.00	0.00	-	_		_								_				-	L			$\vdash$	-			ļ			000
7	K MC	2.00		2.00	0.00				Ц					$\vdash$	L		_		┞			-		H	$\vdash$			-	$\vdash$			000
	K MC	B.00		3.00	0.00									-		$\vdash$	$\vdash$		_		H	_	L	$\vdash$	-	_	L	-		I		
3	K MC		11.0	11.0	0.00	H	Ц		$\Box$					-		$\vdash$	$\vdash$	L	┝		$\vdash$	╀_			╁	-	L	+	$\downarrow$	Ţ	عاد	
4	K MC		B.00	0 0.00	8.00	1.01.0	oh. oh	6	.01.0	1.01	0.			$\vdash$	L		_		$\vdash$		$\vdash$	L		T	-	-		+	-	L	ے اد	
													П	H	П	Н	Н		_			L		$\vdash$	$\vdash$	igert		+	-			3
2	K FMS	13.0		13.0	13.0 0.00	_	$\exists$		4										_		H	_		-	H	L		$\vdash$	-		2	0
	FMS	4.00		4.00	4.00 0.00		$\Box$		Ц					Н	Ц		L		-		┢	L		t	-			$\frac{1}{1}$	$\vdash$		2 0	
7	K FMS	2.00		2.00	2.00 0.00	_	_										_		-		H	_		$\vdash$	$\vdash$			-	-		<u> </u>	
	K FMS	0.00		00.00	0.00 00.00	Н	Ц		Ц	Н		lacksquare		$\vdash$		-			H		-	L	L	T	$\vdash$	L		+	+		<u> </u>	
	K FMS		00.0	0.00	0.00 00.00					_		_		$\vdash$		$\vdash$	L		-		H			-	$\vdash$	-		-	-		عاد	
	K FMS		0.00	00.00	0.00	Н				Н	П	Н	П	Н	П	-			L			L	L	t	$\vdash$	1		+	-		ء اد	00.0
			$\frac{1}{2}$	_		$\dashv$			-					$\dashv$		Н	Ц					_		$\vdash$	-			-	$\vdash$		+	3
				$\downarrow$		-	$\exists$	$\exists$	$\dashv$	1	4		1	$\dashv$		$\dashv$			Н							_		-	-		+	Ţ
	- 1	62.0		62.0	0.00	$\dashv$	$\Box$	_	$\dashv$	$\dashv$	7			$\dashv$			_		_						_				-		c	00
	ALL	51.0		51.0	0.0	$\dashv$	1		$\dashv$	$\dashv$	1	$\dashv$		$\dashv$	$\exists$	$\dashv$	$\dashv$								_				L		<u> </u>	00
	ALL	96.0		96.0	0.00	-	$\Box$					$\dashv$		$\dashv$		-	_				_	L		L	L			-	$\perp$		9 0	
	ALL		91.0	91.0	91.0 0.00	$\dashv$	$\Box$	$\exists$	$\dashv$	$\dashv$		$\dashv$				Н		H						$\vdash$	-			-	-		عاد	
						$\dashv$	$\Box$	$\dashv$		$\dashv$	$\Box$	ᅥ	$\exists$	$\dashv$								L		-				$\vdash$	-		<u>;</u>	3
		TOTAL MONTHLY PRODUCTION	NATHEN	300	300 76.06.06.06.06.06.06.0	90.	0.0	90.0		6.06.07	49.49 49.49	딍	0.40	$\dashv$		$\dashv$		H	Н		H			H	Н			╁	-	I	- 6	0.00
																				REM	PKG											
FAC		MANUFACTURER NAME	TREE NA		PRODUCTION RATES		N R	ATES	MONTH REACH	IS TO	Ц		PROC	UREN	PROCUREMENT ADMIN LEADTINE	LEAD	TIME	Æ	Π	Ĕ.	PRODUCED BY	D BY	SYS	TEMS	00 5	SYSTEMS CONTRACTORS	CTOR	s,				
-	Ā	ALLIANT TECH MA	N.	Π	7 20	00	1 6	24 00	r.	Γ			PRIO	T AF	SCT TO	PROD.	ĀF	AFTER 1	8	TIO C	M865/M831 LINE SHARE	31 1	INE	SHA	ا ب	!						
~	OUI	OLIN ORDNANCE, FL	CE, FL		4.80			16.00	1				9		4	6		13		ROT	FACILION KATES ARE STAND ALONE ROTH CONTRACTOR IND AT TOWN AND TOWN	LOW ATTRACT	KATE CTOT	A S	E S	I'AND	ALO	E G				
3	TBS	TBS-ALLIANT/OLIN SPLIT	VOLIN SI	П	12.00 15.00	15.		40.00	2		Z į	INITIAL		+	$\dagger$		+			FY9	FY95-98 MULTI YEAR PROCUREMENT 60/40	MOL	TI Y	EAR	PROC	CURE	MENT	AF 7		FY94-96 CDI TT	96 -	
4	TBS				12.00	15.		40.00	- 1		A. E.	REORDER	9	-	4	9	$\dashv$	13								ō	UANT	OUANTITY IN		THOICANDS	AMIDO	
																										1					200	

P-1 LINE NO. 26. PAGE NO. 5 OF 5 PAGES

											DATE			
<b>,-</b> 4	BUDGET ITEM	Ļ	ITEM	JUS	TIFIC	AT	JUSTIFICATION SHEET	IEE	£5		F.	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	PIVITY					P-1 ITEM NOMENCLATURE	VOMEN	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	MUNITION,	ARMY/		1. AMMUN	AMMUNITION		CTG TANK 120MM TPCSDS-T M865	20MM	TPCSDS-T	M865			(E	(E73400)
	FY	96	FY	97	FY	98	FY	66	FŸ	00	FY	0.1	01 02 FY	03
QUANTITY		132	211		184		160		172		173		1747	174/174
(Thousands)									]		1		•	
COST (In Millions)	•	90.06	\$ 115.5	2	\$ 111.7		\$ 103.5	w	113.7		\$ 116.9		\$ 120.8/123.7	1/123.7
														i

### DESCRIPTION:

that simulates the ballistics of the 120mm M829A2 Armor Piercing Fin-Stabilized Discarding Sabot with Tracer round. The 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price. This round is fired from the M256 120mm cannon on the M1A1/M1A2 Abrams tank.

# JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and support annual tank proficiency training for 120mm-gunned tanks. Training with this round simulates the firing The requested ammunition is required to of the Army's most lethal armor-defeating kinetic energy round in support of Army readiness objectives. The acquisition strategy for FY 95 - FY 98 is a multi-year production contract. builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1984

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CTG TANK 120MM TPCSDS-T M865

DATE: FEBRUARY 1997 NSN = 1315-01-288.5545 (E73400)

PCN:P02QM1DOC45

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

	FY 96 (QTY		131884)	FY 97 (QTY		210914) 1	FY 98 (QTY		183875)	FY 99 (QTY		159547)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ŶŢŶ	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.COMPLETE ROUND	131884	524.01	69109	210914	490.92	103542	183875	524.01	96352	159547	559.89	89329
SUBTOTAL			69109			103542			96352			89329
PRODUCTION SUPPORT	: NEERING CE		2142			145			9847			9129
4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARG	TNG RTATION K SUPPORT SURCHARGE		263 263 12633			155			1108 694! 3411!			$1027 \\ 643 \\ 3164$
SUBTOTAL			18866			11750			15301			14186
NONKECUKKING 1.HATR SAFETY MODIFICATION	: 		2000			250						
SUBTOTAL			·			250						
TOTAL P-1 LINE ITEM! 682.23 89975	X * * * * * * * * * * * * * * * * * * *	682.23	*	**************************************	547.82	115542!	***	******** 607.22	111653	648.81 103515	648.81	103515

P-1 ITEM NO. 27 PAGE NO. 2 of 5

EXHIBIT P-5

PCN PO2QM1DOD4Z

	               	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	YTURE	NSN = 1315-01-288-5545	1-288-5	545	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITY	TY 1. AMMUNI	TION	CTG TA	NK 120MM TI	TANK 120MM TPCSDS-T M865			(E73400)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. COMPLETE ROUND	 	1	 	: : : : : : : : :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1996 ALLIANT TECH SYS, INC	CM-2/FP	IOC	JAN 96	96 LOO	81839	# 483.54			
FY 1996 OLIN CORP	CM-2/FP	IOC	JAN 96	96 AON	50045	# 560.08			
FY 1997 ALLIANT TECH SYS, INC	CM-3/FP	IOC	96 AON	OCT 97	144057	# 491.91	YES	ON	
FY 1997 OLIN CORP	CM-3/FP	IOC	96 AON	VOV 97	66857	# 559.62	YES	NO	
FY 1998 THS FY 1999 THS	CM-4/FP C/FP	1000	JAN 98 JAN 99	OCT 98 OCT 99	183875 159547	524.01 559.89	YES	ON	

#FY 96 AND FY 97, ACTUAL CONTRACT PRICE (AVERAGE OF BASIC AND OPTIONS) MULTI YEAR PROCUREMENT FY 95 - FY 98
FY 98, TBS - TO BE SELECTED, ALLIANT/OLIN 60/40 SPLIT
FY 99, TBS - TO BE SELECTED

P-1 ITEM NO. 27 PAGE NO. 3 of 5

EXHIBIT P-5A

, ,	1 dd			E F	PR(	PRODUCTION	)TI(		SCHED		ULE	(E	(ЕХНІВІТ	BIT	Ъ	-21	_					DATE	FEBI	FEBRUARY	1 7	766		3 CC	COUIRE COMP	EMENTS	REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	ROL S	'MROL	Г
PROC	UREMEN	VI AMM	UNITIC	PROCUREMENT AMMUNITION, ARMY/ACT	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	VITY	디	AMMO	1. AMMUNITION	NO					CFG	I TEM	EM NA	OMEN	NOMENCLATURE 120MM TPCSDS-T M865	TURE DS-T	¥8,6	ی						-				i	E73400	T =
FAC	ប្រ	PR	PROGRAM OTY	1 OTY	ACCEP. BA		.ISC/	AL Y.	EAR	97					FIE	FISCAL	.j⊊	e	ασ			,		FIS	FISCAL	Ϋ́	EAR	-				۵	7	>
02						2 0 1 2 0 1	96	ا ا	CALENDAR YEAR	R YEAR		97					S E	CALENDAR YEAR	, K		86			_		2 2	NA C	YEAR	66				<⊢	_
	•		. 1	-		_	OCT NOV	DEC	JAN FEB MAR	_	APR MAY	N 55 S	JD,	AUG SEP	50	NOV DEC	3	834	MAR APR	Ϋ́		JUL AUG	SEP	Š	Q AON	DEC	JAN FFR	_	APR MAY	2	111	ALIC CE	H.	تر ب
		96P	97 98	8 99	96	96	Н		-		$\vdash$	F		$\vdash$	L	+	L		+						_	_	1 1			_	7			۷.
1	KA	73.0			68.0 5	5.00	L	Ľ	0.		-	L	L	-	L	+	$oxed{\bot}$	$\perp$	+	Į	$\dagger$	╀	1	I	+	+	1		+	+		$\dagger$	-   -	6
2	K A	48.0			48.00	0.00	-		-		$\vdash$	L		$\vdash$		+	igg	1	+	I	$\dagger$	+	$\downarrow$	1	$\dagger$	+			+	+	1	$\dagger$		3 3
1	KA	82.0			0.00		=	E	12	2	12	-2		12 13	Ļ	+	Ţ	$\perp$	+	Ţ	$\dagger$	+	1	1	$\dagger$	+	1	$\perp$		+	1	+		3
2	K A	50.0			34.0 1	16.0	0.0	2	0	10	Lc	0	0			+	$\bot$	$\dagger$	+	$\perp$	$\dagger$	+	$\perp$		$\dagger$	+		$\dagger$	+	+		+		8 8
1	KA		144		00.0	144	_		-			L		$\vdash$	ñ	ļ Ē	Ϋ́	$\dagger$	ļ ē	7	†	٦	10	Ţ	+	+		$\dagger$	+	+	1	+	00.0	00
2	K A	9.	67.0		0.00	67.0			$\vdash$	L	$\vdash$	L	$\perp$	$\perp$	1	5	16	-	17		ţ	٦	1		+	╁	1	$\dagger$	+	$\downarrow$		$\dagger$	00.0	डी
3	KA		18	184	00.0	184			$\vdash$	L	+	F	<b>1</b>	+	1	+		+	1			+	1	-	1,			+.	+.	,	. ] •	٠,	00.00	9 8
4	KA			160	0.00	160	L		$\vdash$	L	$\vdash$	L	+	$\perp$		+	L	+	+	I	+	+	1	7		규	<u> </u>	4	127	7	9 7	91	160.00	3 8
						<del> </del>			-		$\vdash$		$\vdash$	$\vdash$	T	+	F	$\dagger$	+	I	$\dagger$	╀	1		+	+	I	+	+	$\downarrow$		+	1	100
1	K	9.00			9.00	00.0	L		-		$\vdash$		$\vdash$	L		-	-	t	$\vdash$	Ţ	+	╁	$\downarrow$		+	+	I	$\dagger$	+	$\downarrow$	1	+		9
2	K MC	7.00			7.00 0	0.00			_		$\vdash$		$\vdash$	1		H	L	T	H	L	$\dagger$	+	L		╁	$\downarrow$		t	+	+		+	00.0	3 3
1	K MC	B.00			0.00 8.00	8			0.7	Γ	0.	0.	٦	0		+	1	+	-		+	+		İ	+	+		$\dagger$	+	$\downarrow$	Ţ	+	000	9 9
2	MC MC	2.00			0.00 5.00	00.			-	0.	l_:	0	9	0.0	L	-		$\vdash$	-		$\dagger$	╀	L		+	$\downarrow$		$\dagger$	+	ļ		+	00.00	3 2
4	MC MC	9	00.		0.00 5.	5.00			<u> </u>		-		$\vdash$	L	9.	8	L	$\vdash$	-		+	╀	L	İ	╁	$\downarrow$	Ţ	+	+	$\downarrow$		+		3 2
4			13.0		0.00	13.0			Н		H		_			-		$\vdash$	L		$\dagger$	$\vdash$	L	5	5	=	15	=	1-	5	5	15		3 2
4	χ Κ			13.0	0.00	13.0			L		H		$\vdash$	L		H		$\vdash$	-		$\vdash$	├	L			٠	:		:		-	3	) <u>-</u>	3
						H			H	H	Н	П	H	$\coprod$		$\vdash$		-	-		+	╀	L		╁	+		$\dagger$	+	-		+	) []	<u>-</u>
m	FMS	21.0	-		21.0 0.00	00.										$\vdash$		-	$\vdash$		$\vdash$	-			╁	$\perp$		+	+	1		-	0	Ţ
	K FMS	00.4	+	$\rfloor$	0.00 7.00	8		=	. ot . ot	6.	0.10.	10.10	0.	L		$\vdash$		$\vdash$	_		╁	-		Ĺ	H	-		+	╁			+		3 5
7	_	2.00			0.00 5.	5.00			_		1.0	10.10	10	0.10.		_		-	L	L	+	$\vdash$	L	T	╀	Ļ	I	t	+	$\downarrow$		$\dagger$		3 5
		٥	0.00		0.00 0.	00.0			$\vdash$		H		_			$\vdash$		$\vdash$	igspace	L	$\vdash$	-		$\dagger$	+	1		+	+	-		+	00.0	9 9
	K FMS		D.00		0.00 0.	00.0			_		-		$\vdash$	L				$\vdash$	_		$\vdash$	╀	L	T	╀	╀		+	+	1		+	00.0	9 9
	K FMS			00.0	0 00 0	00.0			_		-		$\vdash$	L		$\vdash$		+	L	L	+	╀		$\dagger$	╀	$\downarrow$		+	+	-		1	00.0	의 :
						-	_		-		$\vdash$	L	$\vdash$	L		$\vdash$	L	$\vdash$	F		+	1	I	$\dagger$	╁	$\downarrow$		+	+	-		+	?]	3
			L		-	$\vdash$			-		$\vdash$		$\frac{1}{1}$	L		$\vdash$	L	+	1		+	╀	I	+	╀	$\downarrow$		+	$\perp$	$\bot$		+	$\downarrow$	$\top$
	ALL	158			153 5.	8		س	0.		$\vdash$		-		L	-		┝			+	╀		$\dagger$	+	1		╁	+	$oxed{T}$		+	- 1	7
	ALL	157			34.0 1	123 11	13.0	114	.0 155	0	156.0	167	.01	51 15		_		$\vdash$	L	İ	+	igdash	L	t	+	1	1	+	+	$\perp$	$\dagger$	+	9 6	2 9
	ALL	7	216		0.00	216		H	Ц						19 2	20 18	18	17 1	8 17	18	171	18	å	t	╀		İ	+	+	1	$\dagger$	+	00.0	2 9
	ALL		197		0.00	197	$\Box$	$\dashv$			4		$\vdash$					Н	П		-	_		16	161	6 16	19	16	10	17	1	17	100.00	2 9
	$\frac{1}{4}$		МОМ		_	-			+		4	十	7		$\dashv$		$\exists$			$\Box$	Н				-		'	.1	1	1	1	1		2
		PRODUC	PRODUCTION		187 7	714 11B.0		119.0	913	155.0	156.0	16	.0 15	51 15	5	20 18	8	17 18	18 17	18	17 1	18 18	18	16	16 16	6 16	16	161	16 16	17	17	17	10 172	7.
																					L						1 1	1 1	1 1			1 3		1

Ь.	2	žě	<u> </u>	<u> </u>		
LIME		AFTER 1 OCT		13	13	
LEAD TIME		PROD.	٥	עכ	6	
CUREMENT	EXDITME	AFTER 1 OCT	•	7	4	
ROCUF	ADMIN L	PRIOR 1 OCT	,	0	9	
1				INITIAL	REORDER	

PRODUCTION RATES NORTHS TO HINIMON AFTER P-DAY

MANUFACTURER NAME

MAXIMUM

7.20 9.00 24.00 5 4.80 6.00 16.00 5

ALLIANT TECH MN
OLIN ORDNANCE FL
TBS-ALLIANT/OLIN SPLIT
TBS

12.00 15.00 40.00 5 12.00 15.00 40.00 5

PROBUCED BY SYSTEMS CONTRACTORS.
M865/M831 LINE SHARE
BOTH CONTRACTORS LAP IOWA AAP FOR FY 94-96
FY95-98 MULTI YEAR PROCUREMENT 60/40 SPLIT

QUANTITY IN THOUSANDS

PAGES PAGE NO. P-1 LINE NO. 27

.ioi.	400	I.	:E-F	ńα	0	0.00					00.0	0.00		0.00	0.00	00 0						00						0		0.00	00.0	00.0	0.00	0						တ္ခါ
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E73400			335	1	Ţ	Ţ	T	Ĭ	I	Ĭ	Ĭ				Ĺ			15		1			15	7 6	ی اد					0	0	0				u	) <b>[</b>	!	THOUSANDS
NTROL 92				L Aug	1	+	_	$\downarrow$	-	1	<u> </u>	<u> </u>	<u> </u>		_	_		$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	1	L	_	$\downarrow$	-		_	L								30-10	SPLIT		DOH.
rs co				JUN JUL	+	+	+	+	╁	╁	╁		-	_	-	$\vdash$	-	-	+	-	+	+	+	_	+	$\perp$	╀	_			_						7			2
EMENT P (AF			2	MAY JU	$\dashv$	+	╁	+	╁	+	╁	$\vdash$	$\vdash$	<del> </del>	-	-	+	+	+	+	+	+	╁	╁	+	╁	+	+	H		-		Н	$\vdash$	╢.	•	ď	709	È	
SQUIR D-COM			02	A PR	$\dagger$	+	+	$\dagger$	$\dagger$	+	$\dagger$	-	-		$\vdash$	$\vdash$	+	$\dagger$	+	t	+	╁	╁	+	$\perp$	╁	╁		Н			L	-		l ogo	;	D H	Į.	FEIN	XOMIN I I I Y
R D			YEAR	JAN FEB MAR APR	$\top$		$\top$	T	<del> </del>	T	T					f	T	T	$\dagger$	╁	$\dagger$	T	$\dagger$		+	$\dagger$					_	_			RAC	,	A A	REME	5	
		æ,	CALENDAR YEAR	FEB																T					T	T		$\Box$							NO	:	TOW	SOCU		
7		YEAR 02	3	++	$\perp$	1	_	1	Ļ		_	L	_		L		L		L																MS	ARE	I,AP	R PF		
1997		AL		v DEC	+	+	+	+	+	-	$oldsymbol{\downarrow}$	L	_	_	_	-	L	-	L	_	1	L			ļ.,	L				_					PRODUCED BY SYSTEMS CONTRACTORS	M865/M831 LINE SHARE	BOTH CONTRACTORS LAP TOWN AAP FOR	FY95-98 MULTI YEAR PROCUREMENT 60/40		
ARY		FISCAL		OCT NOV	+	+	╁	╁	╀	+	+		_		_	-	-	╀	╀	+	+	-	$\vdash$	-	╀	-	L	H	-	_	_				Y SY	LINE	ACTC	LTI		
FEBRUARY		-		SEP	+	+	╁	+	+	H	╁			-	_	┝	╁	$\vdash$	╁	+	+	+	╁	$\vdash$	$\vdash$	$\vdash$	-	H	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$		U B	331	NTR	MU		
E E				AUG	+	$\dagger$	$\dagger$	$\dagger$		$\dagger$						-	r	T	$\dagger$		T		$\vdash$		$\vdash$	$\vdash$	$\vdash$	H	$\dashv$	$\dashv$	-	-	$\dashv$		388.	5/M8	CC	96-9		
DATE	M865			JUL													Ī										-		7				T		PERS	M86	BOT	FY9		סשטעם
	E WE		0	MAY JUN	$\perp$	1		1	L	Ļ	_	Ц	Ц					L																		T	ŗ.			ָן קור
	M NOMENCLÀTURE K 120MM TPCSDS-T				+	+	+	+	$oldsymbol{\downarrow}$	-	╀	Н				_	L	$\vdash$	$oxed{\bot}$		L	<u> </u>	L	L	_	L	_		_	$\downarrow$	_	_	$\perp$			;	-1 <u>-</u>	13	13	  -  -
	CLĀ TPC	[	ž	MAR APR	+	+	+	╁	╁	╁	⊢	Н	_	Н		_	├	-	╀	-	$\vdash$	-	H	-	$\vdash$	-	L	Н	$\dashv$	4	-	$\dashv$	4	44	IME	Ē	AFTER 1	-	-	
	MEN OMM	~ 5	CALENDAR YEAR	EB	†	╁	$\dagger$	t	t	┢	H	Н	Н	_		H	-	H	┢	H	┢	┝	-	$\vdash$	┢	<u> </u>	H	H	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	-H	LEAD TIME	T			-	'
1 1	120 120	(EA	GLEN	JAN				T	╁	T			П			-	H	T	T	1	T			-	H	<u> </u>	┢	Н	+	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	LEA		PROD	6	6	PAGE NO
13				oga		L	I	L																				П	1	7	1	7	寸	$\top$	LIN	2 6	5F:		+-	PAG
	CTG	FISCAL		NON	+	+	$oldsymbol{\downarrow}$	L	┡	_	L		_				L		L	L	L	L			_			Ц	$\perp$	$\Box$			$\Box$		EME	ADMIN LEADTIME	8	4	4	
1 1	<u>a.</u> 0	<u>[14</u>		SEP OCT	┿	+	╀	╀	┝	├	H	14	$\dashv$	$\dashv$	_	_	L	-	┞	9	_	-	L	┞	L		_	$\sqcup$	$\dashv$	4	4	4	4	- 6	SCOL	MINI	55	9	ي ا	
(EXHIBIT				AUG S	╁	╁	t	┢	H	H		14		-	_	_	-	-	H	8		$\vdash$	┝	H	-	H	L	Н	$\dashv$	┥	+	+	+	15 16	PRC	218			] <u>~</u>	g
目到				JOE		T						14	7				_	$\vdash$	$\vdash$	등		$\vdash$	_	$\vdash$		-	_	$\vdash \vdash$	$\dagger$	+	$\dagger$	+	+	15 1				TNTTAI.	REORDER	NA I
凹			8	25		L	L					14								0.1													1	15				Į	RE	P-1 LINE NO.
띡				ž	+	+	╀	_	L	_	Ц	13 13	4	_	4		<u> </u>	L	_	년 당			_	L		L		Ц		$\Box$		_[		14		<u> </u>		Т		֓֓֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
SCHEDULE			ž	MAR APR	╁	╁	$\vdash$	├	H		Н	13 1	$\dashv$	$\dashv$	$\dashv$	_	L	$\vdash$	_	0.10	_		_		L	Н		Н	4	4	4	1	4	4 14	PRODUCTION RATES MANTER TO	10 P				
誾	NOIL	8	CALENDAR YEAR		$\dagger$	$\dagger$	H	<u> </u>			Н	=	$\dashv$	1	$\dashv$			H	$\vdash$	팅	_	$\vdash$	-	H	-	H	_	H	+	+	$\dashv$	+	+		LNOW.	įĘ	) 5		2 2	
S	/ 1. AMMUNITION	EAF	CALEN	JAN FEB	T		T					日	7	7				Г	$\vdash$	팅			_	H	$\vdash$	Н		H	$\dagger$	$\dagger$	7		$\dagger$	14 14	TES	KINGE	24.00	16.00	40.00	
징	MA.	AL )		DEC		L						13								9.											Ī			14	N RZ	A P	0 2	- 1		
PRODUCTION		ISC.	66	NOV	+	╀	$\vdash$	_	L	L	Н	3 13	4	4	4	_			_	0.10.					L	Ц				_				173 14 14 14	rior	1-8-5	9.00	6.00	12.00 15.00 12.00 15.00	
M	E		<u> </u>		1	18	18	8	00	0		160 13	+	힑	9	9	00	0(	0	<u>о</u>	Н	<u></u>	00	0	0	0	0	$\dashv$	4		9	0	↲	377	DUC	E .	7.20		8 8	
	. 회		1 oct			00.0	0.0	0.00	0.00	0.00	0.00		4	0.00	7.00 0.00	8.00 0.00	00.0	5.00 0.00	0.00	13.0	L	21.0 0.00	00.0	5.00 0.00	00.0	0.00 0.00	0.00	$\sqcup$		158 0.00	9	9	0.0		PRO	MININ	7.	4	12.00	
A I	X T	ACCEP.	و ا ا	9	73.0	48.0	82.0	50.0	144	67.0	184	0.00	ı	9.00	9	8	5.00	00.5	13.0	0.00		1.0	7.00	00.	00.0	00.	0.00			128	157	216	197	728					ᇊ	11
1 111			- 1	FY	1	T	Ĺ			ĺ		160	7	٦				1	,-1	3.0 (	П	Ť	• -	۲Ï	Ĭ	٦	0.00	$\top$	†	$\dagger$	†	+	†	+	NAME	1	M	끕	SPLIT	
	S S	PROGRAM QTY	- 1		+	$\vdash$	H	Н	Н	Н	184	7	+	$\dashv$	$\dashv$	$\dashv$	_	Н	3.0	13	Н	Н	Н	Н	Н	00.	ف	+	+	+	+	4	=	╁	A				Z	
200		3RAI	- 1	<del></del>	+-	$\vdash$	$\vdash$	Н	4	0	1	+	4	4	-	4	Н	0	13	Н	_	Щ	Н	Н	0	).d	4	+	+	+	4		197	TOTAL MONTHLY PRODUCTION	TIRE	& LOCATION	뜽		TBS-ALLIANT/OLIN	
		PROC		FY 07					144	67.0		$\downarrow$	4			إ	_	5.00		Ц				Ц	0.00				$\perp$			216	$\perp$	UCTI	7AC	ણ	ALLIANT TECH	OLIN ORDNANCE	IAN	
				FY	73.0	48.0	82.0	50.0				$\perp$		8.0	00.2	8.00	5.00					21.0	00.4	5.00					_[	158	157			TOTA	NO.	-8	IANI	S	ALL	
PI	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	លធា	<b>~</b> >	•		A	A	A	A	A	A	A		ğ	ğ	ξ	MC	MC	MC	MC		FMS	FMS	FMS	FMS	FMS	FMS			N.	ALL	ALL	ALL		W	_	ALL.	OLI	TBS	
dod		D		$\mp$	×	×	X	X	天	天		¥	7		본	×	×	×	×	×	H	Ж		×	X	×	×	$\dashv$	+	#	+	+	$\mp$	7	Ų	<u>,</u> .				
	LA KI	FAC	02		-	~	1	2	П	2	Э	7		ᅱ	~	ᅴ	7	4	4	4		3	1	7											Ę.	NO.		7	w 4	
<del></del>					•		•								_			_																		—				

											DATE		
	SUDGE	H	ITEM	JUS	BUDGET ITEM JUSTIFICATION SHEET	AT	ION	HE	ΕŢ		i i	Abbl ABBBMAA	£ 6 6 1
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITEM NOMENCLATURE	1 NOME	ICLATURE			1 1155.43	
PROCUREMENT AMMUNITION, ARMY/ACTIVI	MUNITION,	ARMY/	ACTIVITY 1	TY 1. AMMUNITION	NITION		CTG ARTY	7.5MM	CTG ARTY 75MM BLANK M337A1	11			(E.1.
	FY	96	FY	97	FY	86	FŸ	66	FŸ	00	FY	5	V3 50
QUANTITY (Thousands)		39	-0-		7.0		34		34		32		573
COST (In Millions)	vs	1.5	-0- \$		\$ 3.0		\$ 1.5		\$ 1.5		\$ 1.4		

(00)

=

#### DESCRIPTION:

The 75mm blank cartridge is used on the Pack 75 howitzer for ceremony, parade, and training purposes. The cartridge polyster resin adhesive. This item is Code A, approved for service use, and will be procured through the CAMCF at consists of a brass aluminum cartridge case containing loosely packed black powder and a press-fitted percussion primer. A fiber wad is inserted over the black powder and a polystyrene closing cap is cemented in place with aa fixed standard price.

# JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports Presidential and VIP salutation, simulated firing, and annual peacetime training.

TYPE CLASSIFICATION DATE:

1975

P-1 SHOPPING LIST ITEM NO. 28 PAGE NO.

30. 1 of 6

Page of Pages Exhibit P-40

DD Form 2454, JUN 86

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FERRUARY 1997 NSN = 1315 01 307 3944 (E15200)

PCN: P02QM1D0C43

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CTG ARTY 75MM BLANK M337A1

						THE / TIME	TRICCH VINUER THIC	181				(1.1.2.00)
	FY 96 (QTY	<b>.</b>	39487)	FY 97 (QTY		( )	FY 98 (QTY	¥	70088)	FY 99 (QT'Y		33710)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	YILO	TINU	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND DACK (1AB)	30.487		000					6				
ar ro	55282	2.70	149				70088	30.49	2137	47104	31.13	1049
	40277	5.07	204				71490	5.33	381	34385	5.44	187
4.*PKIMER PERC M61	40672	0.58	23			<b></b>	72191	0.31	C1	34722	0.31	Ξ
SUBTOTAL			1262						2805			1374
PRODUCTION SUPPORT												
1.PRODUCTION ENGIN 2.OUALITY ASSURANC	ENGINEERING SURANCE		39						287			141
3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION	NG		151			•			32			16
5.INDUSTRIAL STOCK 6.CAWCF GAIN/LOSS	SUPPORT SURCHARGE		231						1001			49
SUBTOTAL			346						446			513
NONRECURRING												
1.*GOVERNMENT FURNISHED MATERIAL	SHED MATERIA	ń	-149						-287			1 38
SUBTOTAL			-149			<u> </u> 			-287			138
**************************************	******	36.95	·*	************	***	* * * * * * * * * * * * * * * * * * * *	4**************************************	42.29	2964!	****************	43.16	1466
									-			

P-1 ITEM NO. 28 PAGE NO. 2 of

9

EXHIBIT P 5

12
4
Ω
0
Ω
$\vdash$
Σ
Ø
2
0
Д
z
υ

PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION  CTG AMERICAL YEAR  1. LOAD, ASSEMBLE, AND PACK (LAP)  FY 1996 MASON-HANGER SILAS  MIDDLETON, IA  FY 1999 MASON-HANGER SILAS  MIDDLETON, IA  MIDDLETO	P-1 ITEM NOMENCLATURE						
AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION  CONTRACT  CONTRACT  METHOD  CONTRACT  METHOD  E, TYPE  BY  METHOD  E, TYPE  BY  METHOD  SSEMBLE, AND PACK (LAP)  MIDDLETON, IA  MI		<b>IOMENCLATURE</b>		NSN = 1315 01 307 3944	11 - 307 35	3.14	
CONTRACTOR METHOD BY CONTRACTED AWARI & TYPE BY BY DATE SEEMBLE, AND PACK (LAP)  MIDLLETON, IA MASON-HANGER SILAS SS/CPFF IOC MAR MIDLLETON, IA SS/CPFF IOC MAR MIDDLETON, IA SS/CPFF IOC MAR MIDDLETON, IA SS/CPFF IOC MAR MIDDLETON, IA SS/CPFF IOC MAR MIDDLETON, IA MIDD	CIG ARIY /	CTG ARTY 75MM BLANK M337A1	337A1	1		(E15.200)	(00)
SS/CPFF IOC MAR SS/CPFF IOC MAR SS/CPFF IOC MAR		DATE OF FIRST DELIVERY QU	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV RROD	TE YES WHEN AVATE
SS/CPFF IOC MAR SS/CPFF IOC MAR SS/CPFF IOC MAR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		: : : : : : : :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:		
SS/CPFF IOC MAR	16	76 NUC	39487	22.45			
SS/CPFF IOC MAR	MAR 98 JUN	66 N	70088	30.49	YES	HO	
	MAR 99 JUN	00 N	33710	31.13			
2. *BLACK POWDER, CLASS 1 (LB)							
FY 1996 STOCK ISSUE N/A N/A N/A N/A N/A FY 1998 STOCK ISSUE N/A N/A N/A N/A FY 1999 STOCK ISSUE N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	<b>AAA</b>	55282 98124 47194	N/N N/A N/A	N/N/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A/A	N/A N/A	

PAGE NO. P-1 ITEM NO. 28

3 of 6

EXHIBIT P. 5A

PCN PO2QM1DOD4Z

APPROPRIATION/BUDGET ACTIVITY									
			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	$MSN = 1315 \cdot 01 - 307 \cdot 3944$	01-307-3	94.1	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	ITY 1. AMMUNI	TION	CTG AR	CTG ARTY 75MM BLANK M337A1	NK M337A1	1		(E15200)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQU	TE YES WHEN AVATE
3. PRIMER PERC MIBIAZ	 	[	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1		; ; ; ; ; ; ; ; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		:
FY 1996 DAY & ZIMMERMAN	SS/CPFF	IOC	NOV 96	MAR 97	40277	5.07			
FY 1998 DAY & ZIMMERMAN	SS/CPFF	IOC	MAR 98	MAR 99	71490	5.33	YES	011	
FY 1999 DAY E ZIMMERMAN TEXARKANA, TX	SS/CPFF	IOC	MAR 99	MAR 00	34385	5.44			
4. *PRIMER PERC M61									
FY 1996 DAY & ZIMMERMAN	SS/CPFF	IOC	NOV 96	MAR 97	40672	N/A			
FY 1998 STOCK ISSUE FY 1999 STOCK ISSUE	N/A N/A	N/A N/A	N/A N/A	N/A N/A	72191 34722	N/A N/A	V X X	N/A N/A	

P-1 ITEM NO. 28 PAGE

PAGE NO. 4 of 6

EXHIBIT P 5A

REQUIREMENTS COUTHOUS SYMBOL DD-COMP (AR) 1092	E15200	<u></u>	66	MAR APR MAY JUN JUL AUG SEP R	00 0	0.00	0.00	15 15 15 15 15 10.0	34.0	c	0.00		12 12 12 0	<u></u>	0.10								15 15 15 1544.0					OHANGTED IN THEMSESSED	KISHTITI IN HOUSANDS
DATE FEBRUARY 1997		FISCAL YEAR	CALENDAR YEAR	JUL AUG SEP OCT NOV DEC JAN FEB																				REMARKS					
P-21)	ARTY	FISCAL IEAR	CALENDAR YEAR 98	OCT NOV DEC JAN FEB HAR APR HAY JUN																				TEAD TIME			6 15 21	6 7 13	Z8 PAGE NO. 7 OF O DIRECT
SCHEDULE (EXHIBIT	NOIL		салента укал 97	JAN FEB WAR APR MAY JUN JUL AUG SEP		15 159.0					15 159.0												1     15  15 9.0	2	D-DAY		6 INITIAL 6	REORDER 6	P-1 LINE NO
RODUCTION	//ACTIVITY 1. AMMUNITION		1 oct 96	9 f	0.00 0.00	0.00 39.0	00.00 0.00	0.00 70.0	0.00 34.0	0.00 0.00	0.00 39.0	0.00 0.00	0.00 70.0	0.00 34.0									0.00 143		HINIMON 1-8-5 MAXIMUM AFTER				
PEAPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	E PROGRAM QTY		96P 97 98 99	0.00	39.0	0.00	70.0	34.0	ALL 0.00	89.0	0.00	0.04	ALL									PRODUCTION IN 10.	The state of the s	E LOCATION	IOWA AAP MIDDLETOWN IA			
A P P R O P R 1	PROCURE	FAC	Σ		KA	1 K	7	7	Y Y	Æ	Y	A	A     A	A										7	NO.	1			

tod, SYMBOL	E15200	<	(E-)	Attes SEP R		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00								0 0				Contraction	IN INCUSAINDS
REQUIREMITIES CONTROL SYMICH, DD-COMP (AR) 1092			02	.108 .501.																							NI VITTANIO	
1997 PRE		AL YEAR 02	CALENDAR YEAR	DEC JAN FEB HAR								+															ARTIO	X
DATE FEBRUARY		FISCAL		JUL AUG SEP OCT NOV																				REMARKS				ES
	7A1	01	YEAR 01	FEB HAR APR HAY JUN JI																		+			TOTAL AFTER 1 OCT	21	13	OF OF PAGES
	CTG ARTY 75MM BLANK M33	FISCAL YEAR	CALENDAR YEAR	NOV DEC JAN																				EMENT LEAD TIME	AFTER PROD.	6 15	6 7	PAGE NO.
(EXHIBIT	7. 0			JUN JUL AUG SEP OCT					15 154.0		+	+++++++++++++++++++++++++++++++++++++++	-	15 154 0	-								154.0	PROCUR	PRIOR AFTER	INITIAL 6	REORDER 6	P-1 LINE NO. 28
SCHEDULE (1	NOI		ситембия уемя 00	PEB MAR APR MAY JU					1		+	+		-									15	TANKS TO	AFTER D-DAY		RE	P-1
PRODUCTION SC	1. AMMUNIT	TISCAL TEAK	3	OCT NOV DEC JAN P				10				+	10									- - - - -		PRODUCTION RATES MONTHS IN	26.50 75.54			
PRODU	RMY/ACTIVITY	ACCEP. BAL	10cf 1 oct	66	0,00	39.0 0.00	0.00 0.00		0 0.00 34.0	+	0.00 0.00	0 00 0 00	_	0.00 34.0									99.0 44.0 10		П			
J/BUDGET AC	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	PROGRAM QTY		FY FY FY FY 96P 97 98 99		0	0.00	0.04	34.0	1	5 2	00.00	0.04	34.0									PROBUCTION	MANUFACTURER NAME	E LOCATION			
PERPERPETATION/BUDGET ACTIVITY	PROCUREMENT /	FAC U E	<u>Σ</u>	+	K A D.00	A	KA		1 K A		ALL D. UU		ALL	ALL			+						PRO	FAC MANU	$\top$	$\prod$		

						DATE		
	BUE	BUDGET ITEM JUSTIFICATION SHEET	TIFICATION SH	EET			February 1997	
APPROPRIATION / BUDGET ACTIVITY	TIVITY			P-1 ITEM NOMENCLATURE	Ē			
	PROCUREMENT OF AMMUNITION /Ammunition	NITION /Ammunition				CTG ARTY 105MM DF	CTG ARTY 105MM DPICM XM915 (E53500)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	9	0	0	0	0	0	0
COST (in millions)	0.0	14.2	0.0	0.0	0.0	0.0	0.0	0.0

approved for service use. RDT&E funding for this program is in PE 64802. This item has not transitioned to the SMCA and will be produced as actual incorporates the M200 propelling charge whose projectiles contain a sub-munition payload of 42 dual purpose XM80 grenades. The projectiles utilize optimized for the 105mm system. It uses a post embossed Rhombus fragmentation pattern for superior anti-personnel performance. In response to a one piece all steel body/ogive assembly which is scalloped to contain the cargo without additional ancillary hardware (keys, splines, spacers, etc.). Projectile functioning is the same as the 155mm ICM round, the M483A1. The XM80 is a 1.22 inch diameter fragmentation/shaped charge grenade The 105MM Dual Purpose Improved Conventional Munition (DPICM) XM915 is the extended range round for the M119A1 howitzer. This cartridge the problem of hazardous battlefield duds, the XM80 grenade will be the first ICM bomblet to utilize self destruct fuzing. This item is code B, not

#### JUSTIFICATION:

utilizing a self-destruct fuze with sub-munition, the dud rate problem of any unexploded sub-munitions should be greatly reduced. Procurement builds The FY 1997 procurement supports the acquisition of a more lethal artillery round and provides "deep strike" round capability for the Light Infantry Division (LID). It increases sustainability of the LID on the battlefield. It replaces the Cartridge, 105mm and Anti-Personnel (APICM), M444. By war reserve stockpiles in support of the Army's procurement goal.

Type Classification Date: TC LRP June 1997 TC STD June 1998 Item No. 29 Page 1 of 4

Exhibit P-40
Budget Item Justification Sheet

WEADON SYSTEM COST ANALYSIS		A. Appropri Activity Ti	A. Appropriation Budget Activity Title/No.	I		3. WEAPON CTG ARTY 105	B. WEAPON CTG ARTY 105MM DPICM XM915		C. MANUFACT	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	NOI	P. PATE	February 1997
EXHIBIT (P-5)		Procuremen Ammunition	اید	ARMY/Activity 1.		(E53500)			Day & Zimmerman Inc	rman Inc p			
	;		FY96			FY 97			FY98			FY99	
Weapon System Cost Elements	Code	Unit	Qty	Total	Unit	Qty ×1000	Total	Unit	Qty	Total	Unit	Qty	Total
HARDWARE  1. LOAD, ASSEMBLE, & PACK  2. PROJ MTL PARTS	æ				258.92			1000		1800	1800		1800
4. FUZES, XM234 GREN SD					4.50	264	1187				***************************************		
					70.87	D (C)	729 445 772						
SUBTOTAL HARDWARE COST							6,843						
PRODUCTION SUPPORT  1. ENGINEERING SUPPORT  2. QUALITY ASSURANCE  3. PROOF & ACCEPTANCE  4. INTERIM TRANSPORTATION							1237 55 197 65	31-34-4-34-3					
SUBTOTAL SUPPORT COST							1,554						
NON-RECURRING COST  1. First Article Testing  2. Firing Tables/Software Update  3. SD Fuze Facility  4. M80 KNURLING PROCESS							200 55 5420 100	79-40	<u> </u>				
SUBTOTAL NON-RECURRING COST							5,775						
TOTAL P-1 LINE ITEM						-	14172	-					
PROGRAM UNIT COST				•••	-		2422.56						
·													
				P-1	SHOPPING LIST Item No. 29 Page 2 of	T age 2 of 4		UNCLASSIFIED	IFIED	Exhibit P	Exhibit P-5 Weapon System Cost Analysis	em Cost Analy	Sis

							P-1	TEM NO	MENC	P-1 ITEM NOMENCLATURE	w W		١	l	l		١			Ϋ́	DATE		l			l		Γ
FY 98 / 99 BUDGET PRODUCTION SCHEDULE	잆	UCTION	띬	EDULE.	- 1						CTG ARTY 105MM DPICM XM915 (E53500)	RTY 1	SMM I	PICM	XM91	(E535	(00						Feb	February 1997	266			
				PROC	ACCEP.	BAL				۲	Fiscal Year 97	Year	26				L			۲	Isca	Yea	r 98					
	Σ ι	i	S	ַ סַ	PRIOR	DOE							Caler	dar	Calendar Year 97	97			_			alen	Calendar Year	ear	86		`	
COST ELEMENTS	- K	F	шк>	Each	10 OCT	AS OF 1 OCT	0 U F	z o >	0 W O	¬ < z	≥ ∢ œ	A G R	∑ ∢ ≻	¬⊃z	د ت د د ک	ωшσ	0 U F	z o >	ОшО	_ u u u	2 4 12	4 d a	≥ < ≻	$\neg \supset z$	¬ ⊃ ¬	∢ ⊃ ७	оп q ⊢ п д	
1. Load, Assemble, and Pack		95 & Pr	Α		0				┢╌	-	<del> </del>			┼—	╌	┺		t	┿	╂	-	╄			+	+-	╀	
	Ξ	FY 97	٨	9	0	9				H	L				< <	L		-	-	-	-	-	-		$\vdash$	-		0
											Ш					L						_				$\vdash$	0	
										-					_										-	_	0	Γ
	$\downarrow$							1	┥	$\dashv$																	0	_
									_	$\dashv$	_										_				-	_	°	Ι.
									$\dashv$	$\dashv$																_	0	
						İ		1	ᅥ	-	_									_							0	Ī
								$\exists$	-	_				_	$\dashv$											_	0	
	1							$\dashv$	$\dashv$	_																-	0	
								7	-	$\dashv$	_		1					_									٥	
	1								$\dashv$	$\dashv$	_		$\dashv$	_	-	4											0	
	$\Box$							1		$\dashv$	_			-	-	-			_								٥	
	1								-	4	_				$\dashv$	$\dashv$										_	0	
								$\dashv$	+	$\dashv$	_		1	+	4	_		7		_	_						0	
								7	+	4			1	+	+			1		_						_	0	
								+	$\dashv$	$\dashv$				+	+	4		1	$\dashv$	-	_						0	
	1							$\dashv$	ᅥ	$\dashv$	$\perp$		$\dagger$	+	$\dashv$	_		寸	$\dashv$	$\dashv$						_	0	
								+	+	4			+	$\dashv$	-	4		$\dashv$	_	$\dashv$	_						0	
								+	+	$\dashv$			1	$\dashv$	-	_		+	_								0	
	$\Box$							+	+	4			1	$\dashv$	$\dashv$	4		$\dashv$	_							_	0	
								+	$\dashv$	$\downarrow$			$\dashv$	$\dashv$	$\dashv$	_		7		_	_						٥	
								+	_	$\dashv$			$\dagger$	+	4	$\downarrow$		+	+	-	_						0	
TOTAL				٠		۵		-	-	+		_	1	┥	4	1			-		듸	-	1					
							0 U F	z o >	¬ ∢ z	ш ю	Σ∢α	< σ α	<b>∑ ∢</b> ≻	722	7 D Z X X X	o m ч	0 U F	z o >	7 W Z	¬ A Z	Σ∢α	K G G	<b>∑</b> ∢≻	¬ ⊃ 2	70.	V D C		
Σ	Γ	PR	ODUCTIC	PRODUCTION RATES		DEACHED		~ ]					ADMII	ΞÌ	TIME	$\prod$		MFR	╁	TOTAL		ž	REMARKS	. S	4	-	4	Т
R NAME/LOCATION		Z	7	1-8-5	MAX	+	Aumber		INITIAL			S.	Prior 1 Oct.	╁	After 1 Oct.	Oct Oct	Affe	After 1 Oct.	╁	After 1 Oct.	OC .							
Day & Zimmerman Inc	t	2		9	14				REORDER	ď			, e	+	5 2			ی ا	+	2   2								
	П						L	릐	INITIAL		П			H					╀	1								
	П							2	ORDE	œ				Н		П			Н									
	†	1		1				<u> </u>	INITIAL		floor			+		T			H									
	T			T			L	· ·	¥.		floor	l	l	╀		T	1	ı	+	١								
	П							ı	REORDER	<u>α</u>	$\prod$	П		$oldsymbol{H}$		П			╀									
	T							ΞĮ	INITIAL					$\dashv$		Π			Н							•		
	1	1		1	1			4	ב ה ה	إ		ı	ı	4		7			4									_

											DATE		
Щ	BUDGET		EM	JUS	ITEM JUSTIFICATION	AT]	CON	SHEET	단			TEBBILLEN 1007	1007
APPROPRIATION/BUDGET ACTIVITY	SUDGET ACTIVI	ΤΥ					P-1 ITEN	1 NOMEN	P-1 ITEM NOMENCLATURE			INCOURT	1007
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TUNITION, ARM	Y/ACTIV	VITY 1.	AMMUN	ITION		PROJ ART	Y 155MN	PROJ ARTY 155MM SMOKE WP M825	M825			
	FY 96	ا و	FY	97	FY	86	FY	66	FY	00	FΥ	-0	0.2
QUANTITY	-0-		-0		d		٥						1
(Thousands)			•		þ		0		1		-0-		Ī
COST (In Millions)	\$ 5.0		\$ 15.0		\$ 12.6	₩.	12.1		-0-		÷0-		₩

03

FΥ

-0-/-0-

-0-/-0-

(E67800)

#### DESCRIPTION

the ogive and the base. The canister is a cylinder of thin rolled steel to which flat steel ends are welded. Either The M825 series projectile consists of a modified M483A1 carrier, a felt wedge payload, a mechanical or electronic time fuze is used to detonate the expulsion charge setting off a chain reaction resulting The M825 series 155mm white phosphorous (WP) smoke projectile is designed to be ballistically similar to the M483A1 delivered smoke screens are required in combat situations to support maneuver forces by reducing the effectiveness a base, and a separately issued fuze. The modified carrier uses steel instead of the standard M483A1 fiber glass consists of 116 WP soaked felt wedges in a hermetically sealed canister positioned in the projectile body between The M825 series projectile is required to provide fire support to forward area troops and equipment. Artillery family of projectiles and is compatible with all current and developmental U.S. 155mm artillery weapon systems wrap about the circumference of the projectile carrier to offset the low density of the payload. The payload in the expulsion, ignition, and dissemination of the felt wedges thus creating the desired smoke screen. is Code A, approved for service use. of enemy visual observation.

#### JUSTIFICATION:

The purpose of the materiel change is to test an improved design to allow resumption of prior year This is a training standard item used in both training and combat. FY 98/99 procurement supports an urgently needed materiel change to correct current design defects that result in a high malfunction rate which threatens the safety Renovation of these stocks is required to support annual peacetime training requirements and build a war reserve inventory in accordance with the Army's procurement goals. production and subsequent renovation of existing stocks. of the using unit.

# TYPE CLASSIFICATION DATE:

DD Porm 2454, JUN 86

P-1 SHOPPING LIST ITEE NO. 30 PAGE NO.

1 of 1

Page of Page Exhibit P-40

						DATE		
	BUDG	ET ITEM JUSTI	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	h.		February 1997		
APPROPRIATION / BUDGET ACTIVITY	INITY			P-1 ITEM NOMENCLATURE	ш			
	PROCUREMENT OF AMMUNITION /Ammunition	NITION /Ammunition				PROJ ARTY 155MN	PROJ ARTY 155MM HE M795 (E66800)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	130	84	0	0	0	0	0	0
COST (in millions)	55.4	40.0	0.0	0.0	0.0	0.0	0.0	0.0

mining and blast effect. It is also used as a registration round for the M483A1 family of cargo munitions and can be used as a registration round for the rotating band during shipping and handling. The projectile can use several different fuzes (impact, mechanical time and short intrusion proximity). The The base is protected by a carbon steel base plate. The projectile is fitted with a protective lifting plug at the nose and a grommet which protects the 155mm Sense and Destroy Armor (SADARM) M898. It provides greater range and effectiveness than the M107, which cannot be fired at top zone DESCRIPTION: The M795 projectile consists of 23.8 pounds of TNT explosive loaded into a 78.1 pound high fragmentation steel body assembly. M795 will supplement the currently stockpiled M107. It will be used for conventional fire support for Harassment and Interdiction, fragmentation, with the M203A1 (Zone 8) charge. This item is Code A, approved for service use.

This item is not being procured by the CAWCF.

JUSTIFICATION: The M795 will support the following howitzers: M198, M109 Series, including Paladin, and the Trilateral FH70.

TYPE CLASSIFICATION DATE: February 1982

PROCUREMENT TO A Annumention   PROCUREMENT TO A REGESTION	WEAPON SYSTEM COST ANALYSIS	VALYS	<u>s</u>	A. Appropriation/Budget Activity Title/No.	/Budget	B. WEAPON MODEL/SERIES POPULAR NAME	ODEL/SERIES E	C. MANUFACTURER NAME PLANT CITY/STATE/LOCATION	JRER NAME ATE/LOCATION	D. DATE
1   1   1   1   1   1   1   1   1   1	EXHIBIT (P-5)			PROCUREMENT /Amm	OF AMMUNITION IUnition	PROJ ARTY 15 (E66:	5MM HE M795 800)	Mason & Hange	Mason & Hanger, Iows AAP, IA	February 1997
e, and Pack A 155 20118 84 232 30528 85 SUPPORI Ineering 1738 14138 14138 AG COST 6662	Ammunition Cost Elements	Ident. code	FY 96 Unit Cost	(QTY: 130) Total Cost	FY 97 Unit Cost	(QTY: 84) Total Cost	FY 98 Unit Cost	(QTY: ) Total Cost	FY 99 Unit Cost	(QTY: ) Total Cost
SUPPORT ineering ineering sting NG COST  662	<u>HARDWARE</u> Load, Assemble, and Pack Metal Parts	⋖	155 232			14316				
SUPPORT ineering toe string NG COST  662  662	SUBTOTAL			50646		32187				
NG COST 662	PRODUCTION SUPPORT Production Engineering Quality Assurance Acceptance Testing			1738 911 1489		5131 1074 1570				
NG COST 662	SUBTOTAL			4138		7775				
662	NONRECURRING COST			C						
662				000						
	SUBTOTAL			662						
427 55446 475738	TOTAL		427	55446	475738	39962				

Item No. 31

BUDGET	BUDGET PROCUREMENT HISTORY	AND PL/	IT HISTORY AND PLANNING EXHIBIT (P-5A)	   				A DATE		
B APPROPRIATION / BLIDGET ACTIVITY								Febr	February 1997	97
	PROCUREMENT OF AMMUNITION / 1 / Ammunition	mmunitior	_		C. P-1 ITEM   PROJ A	C. P-1 ITEM NOMENCLATURE PROJ ARTY 155MI	2. P-1 ITEM NOMENCLATURE PROJ ARTY 155MM HE M795 (E66800)	795 (E6	(00899	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST	QTY	UNIT COST	SPECS AVAIL	SPEC IF	IF YES WIA
Load, Assemble, and Pack					DELIVERT	non x	'n	A CA	מ מ	
FY 96 FY 97	Mason & Hanger, Iowa AAP, IA Unknown	Option /	ARDEC ARDEC	Mar-97 Nov-97	Oct-98 Oct-99	130	155 170	Yes	° 2	• •
Metal Parts						7.4				
FY 96 FY 97	Chamberlain, Scranton AAP, PA Unknown	Option //	ARDEC ARDEC	Aug-96 Nov-97	Jul-98 Jul-99	131 85	232	Yes	° °	
REMARKS:			e de							

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	DUCT	NO	CHEDI	1		P-111	P-1 ITEM NOMENCI ATLIRE	NCI ATI	ä			l	ı		ļ		ſ			ı	l	۱			Γ
								<u> </u>	ROJA	PROJ ARTY 155MM HE M795 (E66800)	SMM !	1E M7	95 (E6	5800)				DAIR	ш.	ebru	February 1997	266			
			_		_				Fisca	Fiscal Year 98	86			T			1	Fisc	Fiscal Year 99	ar 99				F	L
			S OTY	_	_	!					Calendar Year 98	dar Y	ear 98				L		Calendar Year	ndar		66		T	4
TS		•	- X - X	1 OCT	AS OF CT 1 OCT	or ct c	z O >	¬ < Z	r m n Z A R	< σ α	∑ ∢ ≻	2 D Z	∨ ⊃ ڻ	νшα	00+	20>	¬ ∢ z	и ш ю	2 4 E	Σ∢≻	¬ ⊃ Z	n n -	ک ⊂ ک	νша	<b>⊢</b> ⊞ &
Load, Assemble, and Pack	~	٦.		Ц	H	5 1.0	3.0 5.0	0.9	-	Ë	0.8	ļ-	<del> </del>	8.5	$\vdash$	1	L	╂	┿	╄			╁	╀	0.0
	_	ဖွ	┪	0.0		0.			_			_			9.5	10.5 11.0	110	100	11.0 11.0	1.0	11.0	10	1.0	110 13	130 0
	2 FY 97	26	A 84.2	_	84.2	2								_	$\vdash$	L		$\vdash$	╀	_			-	8	84.2
	1	$\dagger$	_			4	1		$\dashv$			H							<u> </u>				┝		
		7			_										_	L			_	_				_	Π
												_				-		╁	H	_			-		
		+										$\vdash$			-	_		<u> </u>	_	<u> </u>			-	_	
	4														-	_		H	_	_			╁	-	Γ
		$\dashv$				$\dashv$			$\dashv$		Н	Н				Н				_		_	<u> </u>		Π
		$\dagger$	1	1			1		$\dashv$		$\dashv$												<u> </u>	_	
	_	+							$\dashv$											_				-	
	4	$\dagger$	$\frac{1}{1}$	-	+		1		+		1	4			_							-	_	L	
		+		_	_				_			_										H		_	
		$\dagger$	1	1		1	+	$\exists$	4		$\dashv$				Н					ļ			-	L	Γ
	-	$\dagger$			_	1	-		$\dashv$		$\dashv$	$\dashv$			_							-	_		<u> </u>
1.11		+		+	_	7	$\dashv$		4		$\dashv$								Н	Ц			-	<u> </u>	Π
	1	+		4	1				$\dashv$		$\dashv$	_		┪									_		Π
		+		_	_		4		-		+				$\dashv$								-	_	
		+	+						$\dashv$		7	_										-	-		
		+	1	_	$\downarrow$	1	-	$\dashv$	$\dashv$		$\dashv$	_											╀		
	_	+		1	$\downarrow$			+	+		+	+		$\dagger$	+	_		$\dashv$	$\dashv$	_					
SUBTOTAL	1	╁	293.7	7 0.0	293.7	-0	3.0 5.0	6.0 8.0	0 8 0	8.0	8080	0 8 0	۵	7.0	0 5 10 5	110		3			:				
TOTAL	L	-	293.7	°	t	-				8.0				_		5 110	11.0		110 110	110	11 0	0 0	110 110	0 214.2	7 5
						0 U F	Ω Ψ Ο Ζ Ο >	~ < Z	∑ < ≅	< a &	¬⊃z Σ∢≻	204	∢⊃೮	ωшα	Z O >	ΔШО	¬ ∢ z				7 7 2		_	_1	y
V		PROL	PRODUCTION RATES	TES	REACHED	MFR	~		İ	Ц	ADMIN LEAD	LEAD	TIME	П	MFR		Ĭ	OTAL	4-	REMARKS	¥3			4	Т
NAME /LOCATION	2		1.8.5	MAX		_	INITIAL		ŀ	Prio	Prior 1 Oct	1	After 1 Oct.	_	After 1 Oct.	Oct.	Afte	After 1 Oct.	۳ <u>۶</u>	ADTIN	ES AR	E BASE	DON	LEADTIMES ARE BASED ON ACTUAL	
Mason & Hanger, low	6.6	+	11.0	27.5	+	T	REORDER	DER	-		- 6	4	<u>.</u>	+	22   25			37	3 %	ODCC	CONTRACT AWARD THE PRODUCTION RATES SHOWN	ARD 1 ATES (	HOW!	_	
2 Unknown	7.2	H	8.0	20.0			INITIAL		2		0	L	₹	t	23	l		37	ĭ.	).UDE	INCLUDE ADDITIONAL CAPACIFY	IONAL	CAPAC		
							REORDER	DER	4			Ц		H					Ą Ł	DED TO 35 PRC	ADDED TO THE LINE IN FY96 THE FY95 PRODUCTION DATES MEDI-	LINE IN	FY96	ADDED TO THE LINE IN FY96 THE FY95 PRODITCTION DATES WERE 6.0	
	$\frac{1}{+}$	+		$\frac{1}{1}$	+	<b>—</b>	REORDER	ER L	$\downarrow$		l	$\downarrow$		+		П			7.5	AND 1	7 5 AND 18 0 RESPECTIVELY	SPECT	I ES V	EME 0.	<del></del>
		Н		$\coprod$	Ц	Ļ	INITIAL		$oldsymbol{oldsymbol{oldsymbol{ec{oldsymbol{oldsymbol{eta}}}}}$			$\downarrow$	l	十		T			_						
		H			H	4	REORDER	DER	Ц	Ц		Ц	1	Η		$\prod$			_						
	_	+		_	+		INITIAL	DER	$\downarrow$	$\perp$		$\bot$		$\vdash$		П			_						
														┨		7		١	4	2	ŀ		l	1	٦
					=	Hom Mo 34	ž													PAG	PAGE 4 of	)f 5			

Item No. 31

Exhibit P-21 Production Schedule





COST ELEMENTS   1   No.   No.   No.	FY 98 / 99 BUDGET PRODUCTION SCHEDULE	le le	JCTION	SCHE	DULE			P-1 ITEM NOMENCLATURE	M NOM	ENCLA	TURE		İ				1			٩	DATE					ł		
COST ELEMENTS   Proc. Access   Part   Proc. Access   Part   Proc. Access   Part   Proc. Access   Part   Proc. Access   Part   Proc. Access   Part   Proc. Access   Part   Proc. Access   Part		ł		Ì	ł						PRO	IARTY	155M	MHE	M795	E6680	6			_		щ	sbrua	ry 19	26			
COSTELEMENTS  1 505 AP		:	. •			ACCEP.	BAL				Fisi	cal Ye	ar 00				L		l	Γ	isca	Yea	101		l		H	_
Seemble, and Pack  1 95 & RP   A   10   10   10   10   10   10   10		Σ (	i	S	_	PRIOR	DOE		İ				Ca	enda	Year	8				ĺ	0	alen	dar	ear	5		Τ	<
1 FY 96		T EK	à.	m & >		0 1 0 1	AS OF 1 OCT				тше		├──	7 D Z		<u> </u>		z 0 >	ОШС	-		< 4 €	Σ∢:	¬ ⊃ ;	70.		υшα	<b>⊢</b> w c
1 FY 96		Н	95 & Pr	A	79.5	79.5	0.0	$\vdash$	├	╄		┿	╀	I	+	╀	╄	Ī	,	+-	┿	+	1	2	1	┿	+	ءِ   ہ
TOTAL		_	FY 96		130.0	0.0	0.0		-			$\vdash$	$\vdash$		t	╁	_			+	-					$\dagger$	+	
O'AL			FY 97	A	84.2	0.0	84.2	-	-	_	-	_	+-	-	┿	+	L		T	+	_	_			$\dagger$	+	+	00
TOTAL		$\forall$			1							H	L							$\vdash$	-				<del> </del>			00
TOTAL		$\dashv$							_						_		_			_						<del> -</del>		00
TOTAL		$\dashv$							-												_	L			$\vdash$		H	00
TOTAL    TOTAL		+						$\exists$	$\dashv$	$\Box$		-	_													-		0.0
COTAL   Comparison		+		+	1	1		$\dashv$	+			+	4														_	0.0
TOTAL		+		$\dagger$	+			$\dashv$	4	$\Box$	_	+	-		$\dashv$	_												00
TOTAL		+		$\dagger$		1		+	$\dashv$	$\Box$		$\dashv$	$\dashv$		7	4												00
TOTAL		+		†	+	1		+	4		+	+	$\downarrow$		_	$\dashv$					_						_	00
O'AL		+		+	1			+	$\downarrow$		_	$\dashv$	4		1	$\dashv$				_	4					_	_	0.0
TOTAL		+		$\dagger$		1		+	$\downarrow$		_	$\dashv$	4		+	$\dashv$				$\dashv$							Ŭ	0.0
TOTAL		+		+	1	+		+	4		_	+	$\dashv$		1	$\dashv$				$\dashv$								0.0
TOTAL		+		+		1		+	$\downarrow$		$\top$	$\dashv$	4		$\dashv$	-			+	-							L	0.0
TOTAL		+		+	$\dagger$			+	$\downarrow$	1	$\dagger$	$\dashv$	4		$\dashv$	-			7	$\dashv$						_		0.0
TOTAL   293.7 79.5 84.2 2.2 4.0 6.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8		+			+	+		+	$\downarrow$		$\dagger$	+	4		$\dashv$	+		1		+	_						Ü	0.0
TOTAL   TOTA		+		+	+	+		+	+		$\dagger$	+	4		$\dashv$	$\dashv$			$\dashv$	_	4							0 (
TOTAL		┿			+	+		+	4		$\dagger$	+	4		$\dashv$	$\dashv$		$\forall$	$\dashv$	$\dashv$	_							٥
Contract   Contract		+		1	$\dagger$			+	4		$\dagger$	+	$\downarrow$		$\dashv$	+		7	$\dashv$	$\dashv$	-							0 (
TOTAL   TOTA		+		$\dagger$	+	1		+	$\bot$		$\dagger$	+	$\downarrow$		+	4		$\dashv$	+	$\dashv$	_						U	0 (
MAME LOCATION   MIN.   1-8-5   MAX.   May   MIN.	SUBTOTAL	╀	Ť	Ť	╁	70.5	_			Ö																		0 (
PRODUCTION RATES   C   N   N   N   N   N   N   N   N   N	TOTAL	-			╀	2	1-			8												_						و ا ب
PRODUCTION RATES   MAX.   D + MIN.   1-8-5   MAX.   MAX.   D + MIN.   MIN.   MIN.   MIN.   MIN.   MIN.   MIN.   MIN.   MIN.   MAX.   D + MIN.   MIN										~ < 2	┿	-	1	¬ ⊃ :	-		001	z 0	+	-	∑ <	∢ ₽	Σ∢	7 0				3
MAME / LOCATION         MIN.         1-8-5         MAX.         D+         INITIAL         1         Prior 1 Oct.         After 1 Oct. <th< td=""><td>M</td><td>ŀ</td><td>DRG</td><td>DISTION</td><td>RATES</td><td> </td><td>T</td><td>- 1</td><td>╁</td><td></td><td>4</td><td>4</td><td>-</td><td>_ []</td><td>7</td><td>4</td><td>_</td><td><b>-</b></td><td>4</td><td></td><td></td><td>~</td><td>&gt;</td><td>z</td><td>-</td><td></td><td>_</td><td></td></th<>	M	ŀ	DRG	DISTION	RATES		T	- 1	╁		4	4	-	_ []	7	4	_	<b>-</b>	4			~	>	z	-		_	
Mascu & LOCATION         MIN.         1-8-5         MAX.         D+         INITIAL         1         1         15         22         37           Mascu & Hanger, Lowa AAP, IA.         9.9         11.0         27.5         REORDER         3         18         19         37           Unknown         7.2         8.0         20.0         INITIAL         2         0         14         23         37           Initial Robert         1         INITIAL         2         0         14         23         37           Initial Robert         1         INITIAL         2         0         14         23         37           Initial Robert         1         INITIAL         2         0         14         23         37           Initial Robert         1         INITIAL         2         0         14         23         37           Initial Robert         1         INITIAL         2         0         14         23         37           Initial Robert         1         INITIAL         2         0         14         23         37           Initial Robert         1         1         1         1         1         1		<u> </u>				T		Number				١	rior 1 C	ت ( <u>آ</u>	After	Oct	Ä	MFK er 1 Oct		TOT/ After 1	ص اح	RE FA	MARK	SAPE	BAC.	100	Ę	=
Mason & Hanger, lowa AAP, IA         9.9         11.0         27.5         REORDER         3         16         19         37           Unknown         7.2         8.0         20.0         INITIAL         2         0         14         2.3         37           REORDER         NITIAL			MIN	1-8		MAX.	÷ 0		INIT.	اړ	Н	L	-	T	-	١	L	22	╁	37		000	TRAC	TAWA	RD T	5 三 三 三 三	ì	į
UNIXIONATION         (7.2         8.0         20.0         INITIAL         2         0         14         2.3         37           REORDER         C         MITIAL         C		+	9.6	11.0		27.5			REO	RDER	$\dashv$	$\dashv$	က	Н	Ŧ	_	Ш	19	$\vdash$	37		PRO	DUCT	ON R	ATES 8	HOW	7	
		┿	7./	9.0	+	20.02			Z G		+	-		†	اُ			23	Н	37		AD A	ED TO	THE	ONAL-	CAPA(	\ ₹	
		╁					T		Ė		+	╀	l	t				ı	+			FY95	PRO	OUCTI	ON RA	TES W	FRE 6	0
REORDER INITIAL INITIAL REORDER		Н							REO	3DER	H	$oxed{H}$		H		П			╁			4 C /	8L ON	O RES	PECT	IVELY.		
INTO THE PROPERTY OF THE PROPE		+	1		+	$\dagger$			I C	و ا بر	+	4		H					H									
REORDER		+			-	$\dagger$			Ì	r Ser	╁	+	ĺ	$\dagger$				ĺ	+	Ì								
		╀			+	$\dagger$			REO	ZDER	H	$\downarrow$		t					+	1								

						DATE		
	BUDGET	ET ITEM JUSTII	<b><i>TEM JUSTIFICATION SHEET</i></b>	ΞŢ		February 1997		
APPROPRIATION / BUDGET ACTIVITY	YTIVII			P-1 ITEM NOMENCLATURE	ш			
PROCUREME	PROCUREMENT OF AMMUNITION,	TION, ARMY /1/	ARMY /1/Ammunition		PROJ,	PROJ ARTY 155MM SADARM M898 (E66300)	DARM M898 (E	66300)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	150	600	209	1085	1307	1977	2292	2737
COST (in millions)	41.1	93.7	67.9	77.6	84.3	83.7	89.6	7.66

environments, both day and night. The SADARM munitions are designed for use against self-propelled howitzers, lightly armored personnel carriers detects targets using dual-mode millimeter wave and infrared sensors, and fires an explosively formed penetrator through the top of the target. The interdiction. The 155mm SADARM is delivered in the same manner as other 155mm munitions. Once dispensed from its carrier, the submunition projectile is compatible with the momentum limits of standard and developmental 155mm Howitzers. It is ballistically similar to the cargo family of 155mm ammunition. Operational interface with other systems will be accomplished through Tactical Fire Control System (TACFIRE), Advanced Field Artillery Tactical Data System (AFATDS), and appropriate target acquisition sources. The item is Code A, approved for limited service use. DESCRIPTION: The 155mm Sense and Destroy Armor (SADARM) projectile will provide an enhanced counterbattery and anti-armored vehicle capability to attack targets well beyond the Forward Line of Troops (FLOT). The SADARM projectile will function in a fire and forget mode. This and other stationary lightly armored threat vehicles encountered in counterfire, close support, Suppression of Enemy Air Defense (SEAD) and indirect fire mission can be accomplished under inclement weather, degraded battlefield conditions and Nuclear, Biological, Chemical (NBC)

This item is not being procured by the CAWCF.

pinpoint accuracy to destroy hardened targets and will reduce consumption of artillery ammunition. SADANM will support the Howitzer M109 series, JUSTIFICATION: The FY 1998 and FY1999 budget provides for production of war reserve requirements. The SADARM procurement will provide including Paladin and M198 Howitzer systems

Type Classification Dates: Low Rate Production: January 1995

Standard: September 1998

Milestone Approval: Milestone IIIA (DAB): March 1995

Milestone III (ASARC): September 1998

WEAPON SYSTEM COST ANALYSIS	VALYS	Sis	A. Appropriation/Budget Activity Title/No.	ı/Budget	B. WEAPON MODEL/SERIES POPULAR NAME	ODEL/SERIES E	C. MANUFACTURER NAME PLANT CITY/STATE/LOCATION	JRER NAME ATE/LOCATION	D. DATE
EXHIBIT (P-5)			PROCUREMENT ARMY /1//	PROCUREMENT OF AMMUNITION, ARMY /1/Ammunition	PROJ ARTY 155MM SADARM M898	M SADARM M898	Aerojet, ,	Aerojet, Azusa, Ca	February 1997
Weapon System Cost Elements	Ident. code	FY 96 Unit Cost	(QTY: 150) Total Cost	FY 97 Unit Cost	(QTY: 600) Total Cost	FY 98 Unit Cost	(QTY: 507) Total Cost	FY 99 Unit Cost	(QTY: 1085) Total Cost
HARDWARE COMPLETE ROUND METAL PALLETS	⋖	226260	33939	133653	80192	103596 212	52523 18	62792 216	68129
SUBTOTAL			33939		80192		52541		68145
PRODUCTION SUPPORT PRODUCTION ENGINEERING QUALITY ASSURANCE ACCEPTANCE TESTING			4279		5360 261 1050		5197 266 1785		5334 271 1822
SUBTOTAL			4445		6671		7248		7427
NONRECURRING COST FIRST ARTICLE TESTING INITIAL PRODUCTION TESTING LIVE FIRE TESTING COST REDUCTION/RELIABILITY GROWTH VALUE ENGINEERING	ROWT	<b>T</b>	909 10 65 1735		453 2972 75 1000 2308		2053 1040 5027		2000
SUBTOTAL			2719		8089		8120		2000
TOTAL		274020	41103	156118	93671	133943	61909	71495	77572

Complete Round

Metal Pallets

FY 98 FY 99

FY 96 FY 97 FY 98 FY 99

Item No. 32 Page 3 of 6

REMARKS:

Exhibit P:40 Budget Item Justification Sheet

EY 98 / 99 RUDGET PROUICTION SO		NOIT	SHE	HEDIE		ľ	P.4 ITEM NOMENO! ATTIES	NOMEN	TAIO	1					I		-	1	ŀ	ا	ł	١	١	ł	١		
									PROJ	PROJARTY 155MM SADARM M898 (E66300)	155M	MSAE	ARM	M898	(E663	60			<u> </u>	E	ű	epuqa	February 1997	197			
			-		_	BAL			۲	Fiscal Year 96	Year	96				L			╀	Isca	Fiscal Year 97	797				H	
	2		S		-	300		-				Calendar Year 96	dar	ear 9	٥			H		ľ	Salen	dar	Calendar Year 97	16		Τ	∢
COST ELEMENTS	r K	È	w ec >	Fig.	5 <del>1</del>	AS OF 1 OCT	z0> 00⊦	D W C	~ ¥ Z	≥ < α	< 0.00	≥ < ≻	7 7 7 2	< ⊃ U	o m o	0 U F	z 0 >	ОШС	¬ < 2	π m a	< 0 0	Σ∢>	7 2 2	70-	<b>∀</b> ⊃ (	σшο	⊢⊐а
Complete Round	6	95 & Pr	4	110	°	110	┞		⊢	╄		╄	+	-	╂			┿	╁	╂	+-	-   5	I	1	,	十	T
	-	FY 96	٧	150	0	150	$\vdash$		$\vdash$			+	H	L			<del> </del>	H	+	╀	_		25	52	25	22	50
	1	FY 97	٧	009	0	009	H		$\vdash$			$\vdash$	$\vdash$	-			t	<u> </u>	╁	-	1	L			t	H	600
	-	FY 98	٧	207	0	507	-		_	Ĺ		$\vdash$	+	L			T		+	H	<u>L</u>				$\dagger$	$\dagger$	507
	=	FY 99	-	1085	0	1085	L		-				H		L		H	_	┝	H	L	L			$\dagger$	H	1085
							H		H			T	<del> </del>	L			t	╁	┝	╀	_				$\dagger$	+	
							Н		Ц			-	H	L			-	-	$\vdash$	H					$\vdash$	$\vdash$	
							Ц		Н			H	H						H	_					$\vdash$	+	
				1			$\dashv$		_				H						_	L	_			İ	$\vdash$	_	
							$\sqcup$		Н				<u> </u>							L	L				$\vdash$	$\vdash$	
							4		Н				H					-		_	_					-	
									_			$\vdash$		_			H	_	H	-	L				-	H	
							H		_			-	-	_				-	-	L				T	-	+	Τ
							L		$\vdash$			-	$\vdash$	L			H	H	$\vdash$	L				T	t	+	
							H		_			$\vdash$	-	_			┢	$\vdash$	$\vdash$	$\vdash$	L			╁	+	+	
							Н		H			-	L	L			-	<u> </u>	╀	-				T	$\dagger$	+	
									ļ				-	_			$\vdash$	$\vdash$	-	_	L			l	$\dagger$	╁	
	-								H								┢		H	L				T	$\vdash$	$\vdash$	
									$\vdash$			H	H				-	-		L	L			T	-	-	
									Ц				H					-	_	_				Ī	H	╀	
					$\dashv$	+	$\sqcup$		$\sqcup$			$\vdash$	H	Ш		П	Н	Н	$\vdash$	Н						$\vdash$	
SIBIOTAL	$\pm$	1	$\dagger$	276	1	2450	+	T	+	Ţ	_†	+	4	_		7	+	_		_		_		_	_	-	
TOTAL	+	T	†	245.2	$\dagger$	2463	Ŧ	1	+	1	Ţ	+	+	╀	I	T	+	-	-	_	_	_	25	-	-	-	2242
	1	1	1		1	+	-	1	4	+	1	4	4	4		1	4	+	20 20	-	<sub>20</sub>	54	25	25	25	25	2242
							× 0 >	O M O	LAN	Σ∢α	< 0 K	7 J Z	2 Z C L	∢⊃0	wmσ	0 U F	z o >	, y z	¬ < Z	Σ∢α	4 G R	∑ ∢ ≻	ר כ כ	701	v ⊃ ڻ	υшα	
<b>2</b> u	Н	PRC	PRODUCTION RATES	RATES	Ī	REACHE	MFR			Ī		ADMIN LEAD TIME	到	TIME	П	1	MFR	┝	TOTAL	Į	2	REMARKS	δ.	1	1	-	Τ
ACCE AND	•		MAX	_	,	I VIII		Ţ	Ē	700 CG.	+	Arrer 1 Oct.	ğ	Arre	Affer 1 Oct	+	Affer 1 Oct	ö	g,	wn are	expe	cted pa	Shown are expected production rates	on rate	s		
Aerojet, Azusa CA (7	+	29 Y	32	$\dagger$	80	<u>;</u>	-	REORDER	2	1		n   e	+	~   ~	T		13	+	8		cont	ed on I	the EN has se	ID pro	based on the EMD production line. The contractor has self-facilitized to higher	ı line. 'n biob	The
2 Aerojet, Azusa CA ( FY 97 and FY 98)	ł	45	8	$\mid$	125	$\dagger$	Ī	NITIAL		I	l	,	╀	ì	T	l		Ŧ	2	1	rate	s, how	ever.	he pro	rates, however, the production line has	line t	, 6
3 Aerojet, Azusa CA (FY 99)	H	28	8		240			REORDER	8	$\square$			$\dashv$		T			┿	1		peer	n rede	signed	to be	been redesigned to be more efficient at	fficien	<del>a</del>
				$\frac{1}{2}$				INITIAL					Н					┞		ľ	the y	ower p	program	m rate: increa	the lower program rates When the veady mignifiliae increases the	en the	
	+	1		1	$\dagger$	1	T	REORDER	£	1			4	1				Н	П		cont	ractor	will se	If-facili	contractor will self-facilitize to higher	higher	
	+			+	+			REORDER	H				+					+			rates	rates utilizi	ng rep	licate	rates utilizing replicate individual pieces	ual pie	ses
	H			H				INITIAL					$\mathbb{H}$		T			╀	l		?	<b>j</b>					_
	$\dashv$				1	1	1	REORDER	곮				Ц		П			H			_						_

FY 98 / 99 BUDGET PRODUCTION SCHEDIII E	S	CTION	HUN				P.117	P.1 ITEM NOMENC! AT 1 ID	CNEX	Ţ									1	f		-			1			
									ď	30.A	PROJ ARTY 155MM SADARM M898 (E66300)	155MR	A SAD	ARM	M898	(E66;	8				Ĭ	_	February 1997	Jany	1997			
				PROC	ACCEP.	BAL	Ц			Ĕ	Fiscal Year 98	ear	, ,		1		L			1	Fisc	Fiscal Year 99	ar 95		ĺ		Γ	Ŀ
	<b>∑</b> (	į	s)	<u>}</u>	PRIOR	DUE	_		Ц			٦	Calendar Year 98	Jar Y	ear 9				T		İ	Cale	Calendar Year 99	Yea	r 99			∢
COST ELEMENTS	Lα	È	ш сс >	g G	5 <u>5</u>	AS OF 1 OCT	0 U F	z 0 >	O M O	тшв	≥ < ∞	< 0. 02	2 < >	7 D Z	۷ ⊃ ت	ωшα	0 U F	z 0 >	D III C	¬ ∢ z	т m a	2 4 0	< 0 0	7 2 2	7 2 -	< ⊃ (	ωшα	⊢шα
Complete Round	6	95 & Pr	٧	110	110			$\vdash$	L	Ĺ		T	$\vdash$	$\vdash$	1			T	1	╄	┿	┿	┿	╀	╀	1	L	
		FY 96	٧	150	100	20	25	52				T	$\vdash$	┼	$\vdash$	1			1	+	+	+	+-	╀	-	_		
	-	FY 97	∢	900	0	900		ŕ	34 42	19	Ę	25	53	£ 23	8	53	53	53	T	$\vdash$	+	+	$\vdash$	-		_		
	-	FY 98	∢	202	0	202		-	L			_	-	-		L	I	T	25	8	38	36 37	7 38	8	4	46	29	= = = = = = = = = = = = = = = = = = = =
	-	FY 99	٧	1085	0	1085		-				H	-	H		L		T	T	T	-	$\vdash$	-	╀	-	<u> </u>		1085
								$\vdash$	H				$\vdash$	$\vdash$				T		H	-	$\vdash$	$\vdash$	$\vdash$	_	L		
								Н					H	$\vdash$				T		H	+	$\vdash$	├	$\vdash$	L	L		
								$\dashv$				$\forall$	Н	Н	Н	Щ		П		$\vdash$	-	$\vdash$	├	$\vdash$	_			
																				┢	-	_	$\vdash$	L	_	_		
			1									П	Н	Н	$\vdash$			Г			_	+	$\vdash$	-	_	L		
												Н		_	_				_	-	$\vdash$	H	-	_		_		
								_					-		_	L		Г	T	_	$\vdash$	H	$\vdash$	L		L		
								Н	Ц			-	H		_			T	T	$\vdash$	$\vdash$	-	$\vdash$	Ļ	_	L		
													H	_	L			T		$\vdash$	-	1_	$\vdash$	L				
								$\dashv$	Ц				Н	Н	L			Τ		_	$\vdash$	H	┡	-	<u> </u>			
								$\dashv$							L			$\vdash$	H		$\vdash$	H	-	┞	L	L		
								$\dashv$					$\dashv$	Ц	Ц						-	-	-	_		<u> </u>		
								$\dashv$	4				$\dashv$	_				П		H	H	L	_	L		L		
	$\perp$							$\dashv$	$\downarrow$	$\Box$		$\dashv$	$\dashv$	-	_			П			Н	Н			_			
								$\dashv$	$\int$		_	$\dashv$	$\dashv$	4	_			$\dashv$			$\vdash$					<u>_</u>		
	+		1			Ī		+	$\downarrow$			$\dashv$	+	-	$\dashv$			$\dashv$			Н		Н					
	1		1			I		-	_	_	_		-	-	-		-	_	_	-	_			_				
SOBIOIRE	1		1	2452	210	2242	_	_		_	-	-	-	_	_	-	-	-	-	-	36	36 37	7 38	40	44	46	20	1199
IOIAL			1	2452	210	2242	-	-	7	52	-	<u>.</u>	53	53	53	53	53	53	32	34	36	36 37	7 38	5	4	46	20	1199
							0 U F	z 0 >	¬ ∢ z	тпо	≥ < ¤	< C €	¬ ⊃ z ≥ ∢ ≻	7 2 2	∢⊃७	νшσ	0 U F	z 0 >	DШC	¬ ∢ Z	α Σ ∨ α	< 0. 0	<b>≥</b> ∢>	ים כי	70-	∢ ⊃ (	οшο	
×	Н	PR(	PRODUCTION RATES	N RATES	П		MFR	F		1	T		ADMIN LEAD	LEAD	<del>∦</del> ≜	Τ	ſ	-1.~	+		4,,	1	- <b> </b> ∰	RKS	4	2	1	١
			;			REACHE	Number	_		Ī	7	Prior	Prior 1 Oct.	Н	After 1 Oct	Oct	Afte	After 1 Oct.		After 1 Oct	100	<u>ن</u>	3 nwor	are exp	pected	Shown are expected production rates	ction r	ates
	$\dagger$	NIIN S	1-8-5	ې	WAY.	3	•	<u>z</u>	INITIAL		1			4	~			5	Н	2	26	ធ្ន	sed o	n the	EMD p	roduct	ion fin	based on the EMD production line. The
1 Aerojet, Azusa CA (Thru FY 96)	$\dagger$	£ 4	2 2		20 5			Ź	REORDER	1	†	ļ	_	-	6			Ξ	H		4	8 5	intract	or has	self-fa	contractor has self-facilitized to higher	d to h	gher
3 Aeroiet, Azusa CA (FY 99)	+	2 6	5 8	<u> </u>	240			<u> </u>	REORDER		$\dagger$			+					$\dagger$			å	en rec	design	ed to t	been redesigned to be more efficient at	e effici	entat
	T						L	ž	INITIAL	T	t	ı		1		T		l	十			Ě	e lowe	r prog	ram ra	the lower program rates When the	When t	e e
	Н			П				Æ	REORDER		Н		H	Н	H				+			¥ 8 T	ariy q. ntrack	or will	es incr	yearly quantities increase, the contractor will self-facilitize to biobox	the to big	į
	$\frac{1}{1}$	1		1	1	T		ΞÌ	INITIAL	1	+			$\sqcup$	$  \  $				H			Ē	tes util	izing r	eplical	rates utilizing replicate individual pieces	idual	ieces
	+			†	$\dagger$			ž z	RECKUEK	1	†	1	1	4		T	-	1	+	ļ		ō	of tooling.	ri.				
	ł	1		T	T			Ä	REORDER	T	t			+		T			+			_						
	┨							1		1	1	ı		-		1			┨			4		I				į

CO MOITCITUDEST DECOMINATION OF	ON INTER	10	בוועבוויי	u		10	TO A LTCS MONICHON ATTENDE	10140	101	l	١	l		ı				ļ	ļ	l	١	l	ĺ	l	١
11 38/39 BODGEI FR	20000	מ ב	ייייייייייייייייייייייייייייייייייייייי	u ב		<u> </u>		PRO	CLATURE PROJ ARTY 155MM SADARM M898 (E66300)	Y 1558	AM SA	DAR	1 M89	) (E66	300)			A .	п	Fe	February 1997	y 199	7		
		H	F	H	L	L			Fiscal Year 00	ear	8		İ		L			F	Fiscal Year 01	Year	٦		l		_
				_							Caler	dar	Calendar Year 00	e			H		ပ	Calendar Year 01	ar Ye	ear 0			_
COST ELEMENTS	7 R		R Each V	1 05 T	AS OF T 1 OCT	00F	2 O >	¬ ∢ Z	<b>⊤π</b> Θ Σ∢α	< 0 ×	<b>Σ</b> ∢≻	7 D Z	4 D O	o m r	0 U F	z o >	СШО	~ W E	∑ ∢ ℃	∢ σ α	<b>≥</b> ∢ ≻	7 D Z	7 2 4	A⊃ Ω N H G	⊢ш к
Complete Round	95 & Pr	_	A 110	110	L		-		┞	L		十	├	L		L	H	$\vdash$			T	T	┝	╀	L
	1 FY 96		A 150	150			_		$\vdash$	_		H		L		$\Box$	$\vdash$	$\vdash$			T	T		ļ	_
	1 FY 97	_	A 600	009			-		-	L		H	├	<u> </u>			$\vdash$	-					$\vdash$	-	ļ
	1 FY 98	Ш	Н	393	114	25	g		_	L			-	_			H	-			<del>                                     </del>		_	<del> </del>	_
	1 FY 99	_	A 1085	9	1085		5	11	85 89	93	83	95	96	8	8	100	H	_						-	_
							_		-			H	H				H	$\vdash$			$\vdash$		-	_	ļ.,
									$\vdash$					L			$\vdash$	$\vdash$						_	_
									Н				Н												
																		_					H	L	<u> </u>
									_															_	<u> </u>
									_								H	_					-	L	_
		L					_		_				H					_			$\vdash$		_	-	ļ.,
							Н						_	Ц				L					H	_	L
																	-	_					-		_
		$\dashv$					$\dashv$		-									Н							L
		_				4	4				_	_	$\dashv$					Ц							
		$\dashv$				_	$\dashv$		$\dashv$				4	4				$\dashv$							
		_					$\dashv$		4			-	-					_				_			
		-					-		$\dashv$			$\dashv$	$\dashv$	_											
		_					4		$\dashv$					_				Ц				_		-	
				_		4	$\dashv$		$\dashv$			_	-	_			$\dashv$						_	_	
		┥		-	-		-	-	_	_		┪	_	_	_	$\exists$	$\dashv$	_					Н	L	
SUBTOTAL			2452	2 1253	1199	25	62 70	1	85 89	93	93	95 9	95 96	96	96	100	$\dashv$	Ц			Н		_	L	
TOTAL			2452	1253	1199	25	62 70	-	85 89	93	93	95	95 96	æ	96	100		Н			П		$\vdash$	L	L
						0 U F	_ w ∪	¬ ∢ Z	r π ε	< C α	<b>≥</b> < ≻	7 D Z	0 C P C C C C V D Z V D Z	οшσ	00+	z 0 >	о ш O	¬ ¥ ₩ 8	∑ ∢ Ľ	4 G K	∑∢≻	7 D Z	ر ت ک 6 ت ۸	ωшα	
×		PRODUCT	UCTION RATES	ES	PEACHE	⊢	- 1				MOA	₫.	D TIME		:	MFR	┝	TOTAL	_	REA	REMARKS	,	ł	-	-
T O	2		2.8.5 2.5	MAX.		Number	INITIAL	Į	$\vdash$	Ē	Prior 1 Oct.	╁	After 1 Oct	<u> </u>	¥	Affer 1 Oct.	+	Affer 1 Oct	ij	Show	n are i	expect e FMF	ed pro	duction	Shown are expected production rates based on the FMD production line. The
Aeroiet, Azusa CA (	59	╀	32	8	ļ	Т	SEO.	REORDER	+	╀	, m	+	٣			=	+	3 4	T	contra	actor h	as sel	-facilit	zed to	contractor has self-facilitized to higher
	45	$\vdash$	20	125	_		INI	٩Ļ	L	L		┝					H		Τ	rates	nowe	ver th	e prod	action	rates; however, the production line has
3 Aerojet, Azusa CA ( FY 99)	84	H	88	240			REG	REORDER	Н	Ц		Н					Н		П	the to	redesi wer or	gned (	been redesigned to be more efficient the lower program rates . When the	iore ef	been redesigned to be more efficient at the lower program rates. When the
		+		1	-	-	INITIAL	INITIAL	+		1	+					$\dashv$		П	yearly	duan'	tities ir	yearly quantities increase, the	. the	9
	+	╀		-	-	$\downarrow$	INITIAL	A P	╀	ļ	١	╁					+			contra	actor w	ill self	contractor will self-facilitize to higher	e to h	contractor will self-facilitize to higher rates utilizing randicate in direct
		H					REO	REORDER	Н	Ц		Н					Н			of tooling	fing	2			a biec
		+		+		_	Z Z	REORDER	+	$\downarrow$		+		T			+		П						
		1						١	┨	1	l	1	l				+			ı					

						Parte		
	BO	BUDGET ITEM JUS	ITEM JUSTIFICATION SHEET	EET				
APPROPRIATION / BUDGET ACTIVITY	STIVITY						February 1997	
				P-1 ITEM NOMENCLATURE	3			
	PROCUREMENT OF AMMUNITION /Ammunition	JNITION /Ammunition						
						MULTI OPTION FUZE, ARTILLERY (MOFA) (ER8017)	TILLERY (MOFA) (ER8017)	
	FY 1996	FY 1997	EV 4008					
		1001	088	FY 1999	FY 2000	EV 2004	0000 /	
QUANTITY (000)	_				2007	1002 1 1	F 7 2002	FY 2003
	,	>	>	20	100	000	0,70	
COST (in millions)	5	0			2	200	0.5	400
	2:5	0.0	0.0	6.1	30.9	20.0	000	
						0.60	0.00	612
								1

DESCRIPTION: This budget line item supports procurement of the Multi-Option Fuze, Artillery (MOFA). MOFA will provide the Army with a fuze that precision time, impact and delay after impact functions. MOFA is inductively settable allowing projectiles to be pre-fuzed and handled by automated will perform all functions needed for bulk filled bursting type artillery projectiles in a standard artillery fuze contour. MOFA provides proximity, ammunition handling systems.

setting modes. Currently fielded proximity and point detonating fuzes lack the autoset feature. MOFA can be set for precision time from 0.5 to 199.9 seconds in 0.1 second increments. MOFA can be set to turn-on its proximity sensor from 2 to 199 seconds in 1 second increments. The proximity MOFA will significantly enhance the capability of current and future 105mm and 155mm weapon systems enabling automatic as well as hand impact function. It has an impact function and a point-detonating backup for time and proximity functions. MOFA is absolutely essential for future sensor incorporates a Monolithic Millimeter/Microwave Integrated Circuit to provide a precise height of burst. MOFA contains a fixed delay after weapon systems such as Crusader which will pre-fuze ammunition for automated handling. This item will be procured at actual cost.

fuze will be used on Artillery Ammunition supporting existing cannon systems such as M198 and M109 series, including Paladin. The MOFA fuze is JUSTIFICATION: The Multi-Option Fuze, Artillery (MOFA) supports all current bursting Artillery ammunition for 105mm and 155mm cannon. The critical for support of future Artillery units such as Crusader which rely on MOFA's inductive set capability for automated ammunition handling and rate of fire. Procurement will support testing, training and war reserve requirements.

TYPE CLASSIFICATION DATE: June 1997

Ammo Cost Analysis	٩	A. APPN / BUDGET ACTIVITY TITLE/NO PROCUREMENT OF AMMI INITIC	ET ACTIVITY ENT OF AI	APPN / BUDGET ACTIVITY TITLENO PROCUREMENT OF AMMINITION / 1 / Amminition	/ Amminition	B. WEAPON	Z		Г	C. MANUFACTURER NAME	URER NAME	D DATE	
	٦			, NIOH HOM	/ Arminuminon	MOL	OPTION FUZE (ER8	MUL II OPTION FUZE, ARTILLERY (MOFA) (ER8017)	MOFA)	⋖	ATK	Febr	February 1997
Ammunition	<u>Q</u>		FY 96			FY 97			FY 98			FV 00	
	8	TotalCost	Qty	UnitCost	TotalCost	oft	UnitCost	TotalCost	λįσ	UnitCost	TotalCost		UnitCost
AMMUNITION HARDWARE	$\top$	\$000	Each	S	\$000	Each	<del>\$</del>	000\$	Each	\$	\$000	Each	₩.
Complete Fuze, XM773 M2A1 Ammo Cans (Packing)				··· ··· ··· ··· ··· ··· ··· ··· ··· ··					- Co - Marin , magain , avenu		5401	5000 625	1080
SubTotal AMMO Hardware											5406		
Production Support Costs Production Engineering Quality Assurance	77.							, #/			500		
SubTotal Prod. Support				7. V. V. V. V. V. V. V. V. V. V. V. V. V.							650		
SubTotal COST-Nonrecurring								N					
	-										9509	2000	1211

REMARKS:

CONTRACTOR AND LOCATION

LINE ITEM / FISCAL YEAR

AMMUNITION HARDWARE

Complete Fuze, XM773 FY 99

3. APPROPRIATION / BUDGET ACTIVITY

**TB**D

M2A1 Ammo Cans (Packing) FY 99

History and Planning Exhibit P-5A Procurement

**JFD** 

			3			P-1 ITE	P-1 ITEM NOMENCLATURE	ICLATU	3							1	۲	DATE	ı						Γ
FY 98 / 99 BUDGET PRODUCTION SCHEDULE	ODUCTI	S NO	CHEDU	Ш				MUL	TI OPT	MULTI OPTION FUZE, ARTILLERY (MOFA) (ER8017)	ZE, AR	ILLER	Y (MOF.	4) (ER8	017)					Fet	February 1997	266			
		H	PROC	-	-			ľ	iscal	Fiscal Year 99	Ĕ			H				Ē	Fiscal Year 00	ar 00				r	_
			S	-	_					٦	Calendar Year 99	lar Ye	ar 99			Γ	ļ		Cale	ndar	Calendar Year 00	8			۷.
COST ELEMENTS	<del>F</del> &		n € >	5 5 5 5	AS OF T 1 OCT	00F	х O >	¬ < Z	Σ∢α	< C €	7 ⊃ Z 2 < ≻	ר כ ר	< ⊃ ৩	ωшα	20> 00+	ОШО	¬ ∢ Z	r π ω	< 0 α	<b>∑</b> < ≻	75Z	רכר	۷ ⊃ ق	νшα	⊢шα
Complete Fuze, XM773	95 & Pr	L	┢	<u> </u>	L	L		$\vdash$	L	L	$\vdash$	Ļ	L	H	╀		T	╄	L	L	L	L	L	T	Ī
	1 FY 99	L	A 5000	0	2000				<		├-	L		-	L		200	400 800	1200	1200	1200				
		╄	Η-					┝			$\vdash$	$\vdash$		H	-		T	_		_	_			_	
											_	-						$\vdash$				_			
									L		-	_			-						L				
			•					_			$\vdash$														
											$\vdash$				_							_		Т	
											$\vdash$														
								_			$\vdash$	_			_					_		_			
								_			H						$\vdash$			_	_				
		-						_			$\vdash$	L									_				
											Н														
											H										_				
											_			_			-	_		_					
								_														_			
						_		_																	
											Н														
				_		_		$\dashv$			$\dashv$	4		+	4			_							
		_						$\dashv$			$\dashv$	4			$\dashv$				_						
		_					$\dashv$	_	$\neg$		$\dashv$	$\dashv$		$\dashv$	$\dashv$			$\dashv$							
		+	-			_		+	_		$\dashv$	_			4			_							
		+	-					$\dashv$	$\Box$		+	-		$\dashv$	4			$\dashv$							
		+	-	4	4			+	$\Box$		$\dashv$	_			_			$\dashv$	_						
TOTAL		┪	2000		2000			$\dashv$			$\dashv$	4		┪	4		200	400 800	0 1200	1200	1200				
						0 U F	Z O >	¬ <b>∠</b> Z	Σ∢α	< 0 &	<b>フコ</b> Ζ ▼ ∢ ≻	ر د د د	∢⊃ຶ	ошт	z 0 > 0 ∪ ⊢	_ w ∪	¬ ∢ z	⊥ III 00 Σ ∢ K	4 Q K	<b>∑</b> ∢≻	¬⊃z	רכר	ى ⊂ ⊳	SПГ	
M		PROD	PRODUCTION RAT	ATES		-	L					Δ	TIME	Н	MFR		٢	TOTAL	╄	REMARKS	KS	1	]	1	T
	N		4	MAX		Numper	INITIAL	L	L	Đị <u>c</u>	Prior 1 Oct.	<b>₹</b>	Affer 1 Oct.	┿	Affer 1 Oct	5	After	After 1 Oct.	A Tag	al sole s nt Tech	fuitial sole source contract will be Awarded to Alliant Techsystems Subsequent contract	contract Subs	will be	Award	ed to
1 Alliant Terhecetems/Honkins MN	20	╁	1200	2500	+	т Т	REORDER		_		9	+	,	+	2   ო	Ì		2 6	×	e a co	will be a competitive one year contract, with	e one y	rear cor	ntract,	yith C
2 TBD (for competitive follow-on buy)	15000	-	30000	75000			INITIA	١.	L		6	L	9	H	9	T		24	optic	ons for a	options for additional procurement in later	al procu	петеп	tin late	Ĺ
		H			Ц	7	REORDER	DER.	П		6	Ц	ဗ	Н	Θ	П		6	years.	vi					
		+		$\downarrow$	1		INITIAL	, E	$\downarrow$			$\downarrow$		+					- T						
		+		H			INITIAL		П			Ц		H		T			_						
		-		1			REOR	띮	$\blacksquare$			4		+		7									
		+		1	1	_	INITIAL		ightharpoonup			4	İ	+		1									
	1	┨		$\left\{ \right.$	4	$\left\{ \right.$	INEC	į	1			1		$\frac{1}{2}$	l	1	I	۱	_						

ITEM NO. 33 PAGE 4 of 4

<b>P</b>					1					DATE			
	DODGET TIEM	WI.T.T	ر الا	T.T F. T.	CAT	JUSTIFICATION SHEET	SHE	EJ.				0	
APPROPRIATION/BUDGET ACTIVITY	GET ACTIVIT	Ϋ́				P-1 ITI	EM NOMEN	P-1 ITEM NOMENCLATURE		i i	FEBRUARY 1997	1997	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	ITION, ARMY	/ACTIVITY 1		AMMUNITION		MINE TR	AINING 2	MINE TRAINING ALL TYPES					0000
	FY 96	à	0.7	) L	o o								(EAUSUU)
				1.5	98	FY	99	FY	00	FY	0.1	02 FY	. 03
QUANTITY	-0-	-0-		-0-	1	-0-		-0-		-0-		- () -	-0-/-0-
ESC.													
(In Millions) \$	3.7	\$ 1.9		-0-	1	-0- \$		\$ 2.4		\$ 2.3		₩.	7./7.
									1				

DESCRIPTION:

This budget line includes MINE TRAINING ALL TYPES.

P-1 SHOPPING LIST ITEM NO. 34 PAGE NO. 1 of 2

Page of Pages **Exhibit P-40** 

DD Form 2454, JUN 86

WEAPON SYSTEM COST	1	orlested Co.											
	Procure	Procurement Ammunition, Army	jet Activity Inition, Ar	.my	B. WEAPON MODEL/NAME Mine Training All Types	MODEL/N Jing All T	IAME	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	CTURER !	VAME		D. DATE	
EXHIBIT (P-5)	Activity	Activity 1. Ammunition	. noit		(EADROO)				יאושוברי	NO.			
		- V 96	OTV.		EV 0.1	ST.		7			i	FEB 1997	997
TACO TO THE PER	IDENT	UNIT OTY	ΩTY	1.	TIND		TOTAL	LY 98	αΙΥ= ΩΤΥ =	TOTAL	FY99 UN:T	QTY = QTY	TOTAL
	1003	1800		(2000\$)	COST		(\$000)	COST		(\$000)	COST		(\$000)
Mine, Practice, M89 Volcano E72190	⋖	253,43	œ	1926	•								
WAM Individual Trainer E78103	ω		100	1819									
WAM Collective Trainer E78104	ω					100	1928						
											***	11.11	
							,						
TOTAL P-1 LINE ITEM				3745	- [		1928					Page >	of 9 Pages
			_	P-1 ITEM NG	<b>IC</b> . 34					_	Exhibit P-5	√ 3 3	safe

	BUDGET	ITEM JUS	STIFICATI	BUDGET ITEM JUSTIFICATION RECORD	RD	Бер	February 1997		
APPROPRIATION/BUDGET ACTIVITY Procurement, Ammunition, Army Activity 1. Ammunition	ion, Army			P-1 ITEM NOMENCLATURE Mine AT M87A1 (Volcano)	NCLATURE 87A1 (Volc	ano)		(E72)	(E72195)
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	
QUANTITY (K)	10	9	0	0	0	0	0	0	
COST (in Millions)	29.2	15.0	0.0	0.0	0.0	0.0	0.0	0.0	

#### DESCRIPTION:

meters by 100 meters) that will delay, disrupt and canalize enemy forces and restrict their use of critical routes or terrain. This system is critical for the expendable after use. The mines will be deployed by the Volcano M139 Mine Dispenser to permit quick emplacement of a minefield (1000 This canister loaded with six improved sensor anti-tank (AT) mines is designed for quick connect/disconnet to aid loading/unloading and is the United States Army to be able to conduct Full Dimensional Operations. This item is Code A, approved for service use. This item has not transitioned to the SMCA and will be procured at actual cost.

#### JUSTIFICATION:

The Volcano system is a key component of the Army landmine program. This system will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of personnel to hostile fire.

The date for transition to the SMCA has not been determined.

Type Classification Date: M87 Sta

M87 Standard - January 1989

M87A1 LRIP - March 1994: Standard September 1994

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

DD FORM 2454, Jun 88

P-1 SHOPPING LIST ITEM NO. 35 PAG

PAGE 1 of 4 PAGES

**EXHIBIT P-40** 

SYSTEM COST	A A	A. Appropriation/Budget Activity/No.	dget Activi	ty/No.	B. WEAPON MODEL/NAME	10DEL/NAN	NE NE	C. MANUFACTURER NAME	ACTURER	NAME		D. DATE	
ANALYSIS	Procu	Procurement, Ammunition, Army	nition, Army	_	Mine AT M87A1	'A1		PLANT CITY/STATE LOCATION	Y/STATE I	OCATION		February 1997	266
EXHIBIT (P-5)	Activi	Activity 1. Ammunition	u		(Volcano)		(E72195)	Various - CBO	380		•••		<del></del>
		FY 96	QTY =	10	FY 97	QTY =	9	FY 98	QTY =	0	FY 99	QTY =	0
ELEMENT OF COST	IDEN	COST	QTY (EA)	TOTAL (\$000)	UNIT	QTY (EA)	TOTAL (\$000)	UNIT	QTY (EA)	TOTAL (\$000)	UNIT	QTY (EA)	TOTAL (\$000)
HARDWARE													
LAP (Modified System Contract) Alliant Techsystems, Edina MN	∢	2,688.71	10,000	26,887	2,201.67	5,720	12,594						
Coil & Strap Assembly S&K Inc., Ronan MT		103.26	8,400	867	103.26	6,188	639						
Metal Parts Sets		108.29	8,755	948	108.29	1,358	147						
AT S & A Assembly Action Mfg, Philadelphia, PA					30.60	42,000	1,285						
Miscellaneous				64			36						
SUBTOTAL				28,766			14,701	,	****				
PRODUCTION SUPPORT						-		· · · · · · · · · · · · · · · · · · ·					<del>"</del>
PRODUCTION ENGINEERING QUALITY ASSURANCE				250 146			200					· / · · · · · · · · · · · · · · · · · ·	
SUBTOTAL				396			285						
TOTAL P-1 LINE ITEM		2,916.20		29,162	2,619.93		14,986						

P-1 ITEM NO.

35

PAGE NO 2 of 4 PAGES

AGES Exhibit P-5

								A. DATE		
	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	EMENT H	ISTORY AND	) PLANN	JING EXH	IBIT (P-5,	(A	Fe	February 1997	)7
B. APPROPRIATIO	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 LINE I	C. P-1 LINE ITEM NOMENCLATURE	LATURE			
	Procurement, Ammunition, Army Activity 1. Ammunition	nition, Army			Mine AT N	Mine AT M87A1 (Volcano)	cano)		(E72195)	
ING ITCAA		CONTRACT			DATE OF			SPECS	SPEC	IF YES
FISCAL YEAR	CONTRACTOR	METHOD & TYPE	CONTRACTED	AWARD	FIRST	QUANTITY	TUNIT	AVAILABLE	REV	WHEN
				7	DELIVENT	(eacn)	202	NO.	AFO D	AVAILABLE
LAP (Modified	LAP (Modified System Contract)									
FY 96	Alliant Techsystems	Option	ARDEC	Sep 96	Nov 97	10,000	10,000 2,688.71	YES		
FV97	Alliant Techeveteme	oriton Total	CHOCK			r L	; ;			
	Edina MN		ANDEC	rep 9/	Mar 98	5,720	5,720 2,201.67	YES		
Coil & Strap Assembly	Assembly									
FY 96	S&K Electronics Inc.	Option	ARDEC	Мау 96	Mar 97	8,400	103.26	YES		
EV97	C 8.V Electronice Inc.	1	0			(				
<u> </u>	Ronan MT	Option	ARDEC	reb 9/	Dec 97	6,188	103.26	YES		
						-				
Metal Parts Sets	ets		-							
FY 96	JTM Inc.	SS/FP	ARDEC	Sep 96	Jun 97	8,755	\$108.29	YES		
	Amarillo, TX	***						)    -		
FY 97	JTM Inc.	Option	ARDEC	Feb 97	Sep 97	1,358	108.29	YES		-
***	Amarillo, TX									
ATS&A Assembly	l sembly					.,,,,,,,				
FY97	Action Mfg.	Option	ARDEC	Jan 97	May 97	42,000	30.60	YES		
	Philadelphia, PA									
D REMARKS										

The Modified System Contract includes the anti-tank electronics, bore rider pin release mechanism, third party LAP contract and third party lot acceptance testing.

P-1 SHOPPING LIST
Previous editions are obsolete ITEM NO 35

Page 3 of 4 Pages Exhibit P-5a

DD Form 2446-1, JUL 87

ŧ

FY 98 BUDGET PRODUCTION SCHEDULE	SCHED	ULE		P-1	P-1 Item N	Nomenclature Mine AT M8	Slature AT M8	7A1 (V	lomenclature Mine AT M87A1 (Volcano)			(E72	(E72195)				DATE:	E: February 1997	lary 1	266				
	S	Acc	Bal	1	FISCAL Y	YEAR	97							FISC/	FISCAL YEAR	AR	86							
ITEM/MANUFACTURER/	e PR	e PROC prior	or due													}								
PROCUREMENT YEAR	r QTY	<del>ک</del>	as of		96	٥	alend	Calender Year		97						Cal	ender	Calender Year		98				
	>	1 Oct	oct 1 Oct	ct Oct		DecJ	an Fe	Nov Dec Jan Feb Mar Apr		May Jun	In Jul		Aug Sep	Oct	Nov De	)c Jan	Feb	Dec Jan Feb Mar Apr	\pr  N	May Ji	յոր Jun Jul	Aug	g Ser	Sep later
		96	96	1			H	$\prod$		H					$\vdash$					$\dag \uparrow$				
1 I AP M87	$\frac{1}{2}$	+		+		$\dagger$	+	$\bot$		+	+				+	+						_		
				-			+	L		+	-			$\dagger$		-			+	$\dagger$	+	+	-	
							H			H	$  \cdot  $				H	H				H	H			
		+		+		$\dagger$	+	$\bot$		+	-	$\prod$		+	+	+	1		+	+	_	-	_	
Lone Star AAP FY91	<	38	30	9			-	-	-	-	-	1		$\dagger$	-	_	_				+-	+		$\perp$
							Н			Н	$\sqcup$									Н				
		$\dashv$		4			$\dashv$	$\prod$		$\dashv$	$\dashv$	1		$\dashv$	+	_	$\downarrow$		+	+				
eje Sie						1	+			+	$\downarrow$	$\prod$		1	$\dashv$	+						$\dashv$	_	
hsystems		<u>-</u>		7	3	2			+	+	$\dashv$	$\int$			$\dashv$	$\downarrow$			1	1	-	_		
Edina MN FY95 A		12		12		-	٠ س	3	$\dagger$	$\frac{1}{1}$	4	$\int$	7	m	$\dashv$		$\perp$		1			$\dashv$	_	
FY96 A	A	9		9			-	$\Box$	1	1	4			+	e	က က	3	$\bot$	$\dashv$			_		
FY97	4	9	0	9		$\frac{1}{2}$	$\dashv$	$\prod$	-	$\dashv$	-	$\prod$			$\dashv$	-		3	3			_		
		$\dashv$	$\dashv$	_		1	+		+	$\dashv$	$\dashv$	$\prod$			+	_	_			$\dashv$				
		$\dashv$	-	-		+	+	$\prod$	+	+	+			+	+	$\perp$				$\dashv$	+	-	_	
		+	+	-		$\dagger$	+	-	+	+	+			1	+	$\perp$			+	$\dashv$	+	-	$\downarrow$	
		+	+	-		$\dagger$	+		-	+	+			$\dagger$	+	_			+	-		_	-	_
										H						igert	$\bigsqcup$						-	
			30	41 2	3	3	က	3 1	-	-	-	_	2	3	က	3 3	3	3	3					
				Ö	Νος	Oct Nov Dec Jan	an Fe	b Mar	Feb Mar Apr May	ay Jun	n Jul	Ang	Sep	S OCT	Nov Dec	ec Jan		Feb Mar /	Apr	May Jun	Inc un		Sep	Aug Sep later
	-	roductiv	production rates	mom			rocure	ment I	Procurement Lead Time	me				[ =	remarks	s					ŀ			
Manufacturer'e name and location	_	Min 1.8.5	5 Max					dmin	Admin leadtime	$\vdash$	Manu-		total		đ	ıantitik	es in	Quantities in Thousands	spue					
	Sust	   		Max				0ct	1 Oct		ractruirig Time		1 Oct		۵	oducti	on rat	Production rates increase for M87A1 Improved	rease	for N	187A1	lm m	rover	_
Lone Star AAP, Texarkana, TX			2.5 6	6.3		initial	H	8	24	H	25	4	49		qe	sign e	nhan	design enhances productivity.	oduct	ivity.			5	_
Alliant Techsystems, Edina, MN		3.0	i_	10.5	_	reorder		3	2	$\dashv$	13		<u>@</u>		í	9			:		,			
		$\dashv$		-	_										Ĩ	93 pr	ogran	FY93 program was initial order for M87A1.	nitial	order	To⊥	187A1		
	Ì				ļ									1										

p-1 Line No.

20.50						DATE		
	BUDGET	ITEM JUS	TIFICATI	BUDGET ITEM JUSTIFICATION RECORD	3D	Feb	February 1997	
APPROPRIATION/BUDGET ACTIVITY Procurement, Ammunition, Army Activity 1. Ammunition	ıvıry İon, Army		7	P-1 ITEM NOMENCLATURE Wide Area Munition	P-1 ITEM NOMENCLATURE Wide Area Munition M93	93		(E78100)
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY (EA)	106	113	215	304	536	634	1182	1182
COST (in Millions)	14.6	10.0	15.3	17.9	28.1	31.5	61.0	61.1

### DESCRIPTION:

The M93 Wide Area Munition is a first generation smart munition. It weighs 35 pounds and can be transported and launch its submunition to an effective radius of 100 meters. The M93 is designed for command control of by a single soldier. It has the capability to recognize armor and heavy truck targets and to autonomously aim the Arm/Destruct functions. This item has not transitioned to the SMCA and will be procured at actual cost.

## JUSTIFICATION:

and lethality over current mines in inventory. The FY1998/FY1999 procurements are required to build war reserve The M93 Wide Area Munition supports high mobility/offensive operations. Its design for flexible/rapid deployment combined with cost effective logistics and a self covering minefield capability provides increased performance inventory in support of Department of Defense guidance.

The date for transition to the SMCA has not been determined.

June 1996-Low Rate Initial Production (LRIP) Type Classification Date:

September 1997-Standard Type Classification Date:

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD) P-1 SHOPPING LIST

DD FORM 2454, Jun 88

ITEM NO. 36

PAGE 1 of 5 PAGES

**EXHIBIT P-40** 

WEAPON SYSTEM COST	A. Apı	A. Appropriation/Budget Activity/No. B. WEAPON MODEL/NAME	udget Act	ivity/No.	B. WEAPON	MODEL/I		C. MANUFACTURER NAME	ACTURER	NAME		D. DATE	
ANALYSIS	Procur	Procurement, Ammunition, Army	unition, Ar		Wide Area Munition M93	Munition		PLANT CITY/STATE LOCATION	//STATE	LOCATION		February 1997	y 1997
EXHIBIT (P-5)	Activity 1	/ 1. Ammunition	ion				(E78100)	Textron Defense, Wilmington, MA	fense, M	filmington	, MA		
		FY 96	QTY =	106	FY 97	QTY =	_	FY 98	QTY =	215	FY 99	QTY =	304
ELEMENT OF COST	IDENT	COST	QT√ (EA)	TOTAL (\$000)	UNIT	QTY (EA)	TOTAL (\$000)	UNIT	QTY (EA)	TOTAL (\$000)	UNIT	QTY (EA)	TOTAL (\$000)
HARDWARE Wide Area Munition- M93 Complete Textron Defense Systems Wilmington, MA	٩	133,710	106	106 14,173	85,763	13	9,691	69,132	215	14,863	57,086	304	17,354
								7.84.					
SUBTOTAL				14,173			9,691			14,863		-	17,354
PRODUCTION SUPPORT													
PRODUCTION ENGINEERING QUALITY ASSURANCE				330			250	***************************************		400			460
SUBTOTAL				408			300			460	5,1,		537
TOTAL P-1 LINE ITEM		137,557	`	14,581	88,416		9,991	71,270		15,323	58,852		17,891

P-1 ITEM NO. 36 PAGE

PAGE NO 2 of 5 PAGES

Exhibit P-5

								A DATE		
	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	EMENT H	ISTORY AND	PLANN	VING EXH	IBIT (P-5.	۵)		February 1997	7.
B. APPROPRIATIO	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 LINE ITEM NOMENCLATURE	EM NOMENC	LATURE			
	Procurement, Ammunition, Army Activity 1. Ammunition	, Army			Wide Area Munition M93	Munition N	193	_	(E78100)	
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD	DATE OF FIRST	QUANTITY	TINU	SPECS AVAILABLE	SPEC REV	IF YES WHEN
				27 17	DELIVENT	(eacu)	COSI	MON NO	REQ'D	AVAILABLE
Wide Area Mu FY 96	Wide Area Munition-Complete FY 96 Textron Defense Systems Wilmington, MA	SS/FPIF	ARDEC	Jun 96	Feb 98	106	133,710.00	YES		
FY 97	Textron Defense Systems Wilmington, MA	Option	ARDEC	Feb 97	Jul 98	113	85,763.45	YES		
FY 98	Textron Defense Systems Wilmington, MA	Option	ARDEC	Nov 97	Apr 99	215	69,131.67	YES		
FY 99	Textron Defense Systems Wilmington, MA	Option	ARDEC	Nov 98	Apr 00	304	57,086.41	YES		
								<del> </del>		
	Amarillo, TX									
D. REMARKS										

Previous editions are obsoler ITEM NO 36

Page 3 of 5 Pages Exhibit P-5a

DD Form 2446-1, JUL 87

Ĺ

								A. DATE		
	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	EMENT H	ISTORY AND	PLAN	VING EXH	IBIT (P-5	(¥	Fe	February 1997	7
B. APPROPRIATIC	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 LINE ITEM NOMENCLATURE	EM NOMENC	LATURE			
	Procurement, Ammunition, Army Activity 1. Ammunition	, Army			Wide Area Munition M93	Munition N	193		(E78100)	
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY (each)	UNIT	SPECS AVAILABLE NOW	SPEC REV	IF YES WHEN
A									2	AVAILABLE
Wide Area Mu FY 96	Wide Area Munition-Complete FY 96 Textron Defense Systems Wilmington, MA	SS/FPIF	ARDEC	Jun 96	Feb 98	106	########	YES		
FY 97	Textron Defense Systems Wilmington, MA	Option	ARDEC	Feb 97	Jul 98	113	85,763.45	YES		
FY 98	Textron Defense Systems Wilmington, MA	Option	ARDEC	Nov 97	Apr 99	215	69,131.67	YES		
FY 99	Textron Defense Systems Wilmington, MA	Option	ARDEC	Nov 98	Apr 00	304	57,086.41	YES		
	Amarillo, TX						1, ,			
D. REMARKS										

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST Previous editions are obsolet ITEM NO 36

Page 3 of 5 Pages Exhibit P-5a

FY 98 BUDGET PRODUCTION SCHEDULE	CHEDU	щ		P-1 Ite	Item Nomenclature Wide Area A	nenclar de Are	omenclature Wide Area Munition M93	nition	M93			(E78100)	9	Ì			DATE:	ight.	E: February 1997	266				
													<u> </u>							)				
	v	Acc	Bal	FISCA	CAL YEAR	يِه	97						-"-	FISCAL YEAR	L YE	AR AR	86							
ITEM/MANUFACTURER/	e PROC	prior	due									,												· · · ·
PROCUREMENT YEAR	r ATA	\$	as of		96	Ğ	Calender Year	Year	5	97						Sal	Calender Year	Year		86				
	>	<del>1</del> ٥	1 Oct 1 Oct Oct Nov Dec Jan Feb Mar Apr	oct O	Jov De	ે Jan	Feb	MarA	pr May	v Jun	Jul	Aug	Sep	N Oct	ov De	Oct Nov Dec Jan Feb Mar Apr May Jun	Feb	Mar	Apr	/av		H	Aug	Seplater
		8	96		H	Н		П	H	$\sqcup$												$\overline{}$	6   P	-
	4				$\dashv$	$\bot$			$\dashv$			П	H	Н	Н							_	<u> </u>	-
1.M93 Wide Area Munition-Complete	eţe		$\int$		$\dashv$			+	$\dashv$				$\dashv$	$\vdash$	$\exists$						_			_
Textron Defense Systems Free A	A 106	°	106		+	-		+	+	+			$\dagger$	+	$\perp$	+	20	2	5	20	26		$\vdash$	
		L	1		$\vdash$	-		$\dagger$	+	_				+	+	-			3	1	3	53	9	+
FY98 A	A 215	L	0 215		L	L		$\vdash$	$\vdash$	_			+	$\vdash$	+	$\vdash$			T		T	┸	1	215
FY99 A	A 304	1 0			H								<del> -</del>	-	$\vdash$	_	L			T	+	+	<u> </u>	304
								H	L					_	_	L	_		T	r		-	-	$\vdash$
					H			H	Н	Ц			H	-		_	L				-		$\vdash$	+
								Н									_				$\vdash$	_	H	H
					$\dashv$							П		Н	Н								$\vdash$	-
					$\dashv$	$\dashv$			-	4														-
		$\downarrow$	$\int$		+	1		+	+	$\downarrow$		$\top$	+	+	+		_							
	-		$\int$	1	+	4		$\dagger$	+	4		1	$\dagger$	+	$\dashv$	$\dashv$	$\downarrow$			1	$\dashv$	+		$\dashv$
		1	$\int$		+	$\downarrow$		$\dagger$	+	$\downarrow$		$\dagger$	$\dagger$	+	+	$\downarrow$	$\downarrow$		$\dashv$	1	1	+	+	$\dashv$
	1	$\downarrow$	$\prod$		+	1	1	$\dagger$	+	$\downarrow$		$\dagger$	$\dagger$	+	+	-	1		$\dagger$	+	+	+	+	$\dashv$
	-	$\downarrow$			+	1		+	+	_		†	+	+	╁	$\downarrow$	1		t	$\dagger$	+	$\dashv$	+	+
					H	$\sqcup$		H		igspace			T	+	+	$\perp$	L		+	$\dagger$	$\dagger$	+	+	╀
					$\dashv$	$\sqcup$			$\sqcup$	Ц		H	H	H	Н								-	+
			738		+			+	4	-		7	$\dashv$	$\dashv$		20 20 20	50	20	20	20	56	53	09	519
				oct O	o De	<u>c</u> Jan	E P P	Mar A	Oct NoviDec Jan Feb Mar Apr May Jun Jul	W Jun		Aug		z to	N De	c Jan	Feb	Mar /	Apr N	May Jun	un Jul		Aug Sep later	plat
	8	production rates		E E		Pro	urem	ent Le	Procurement Lead Time	٩			Γ	<u> </u>	remarks	,,						ļ		
Manufacturer'e name and location		1.8.5	1	ф 	L,		Agn	nin leg	Admin leadtime		Manu-	total	_		ō	Quantities in Units	l ui sa	Juits						
	Sust			Max			prior	٦	after	lact	factruing	after	<u> </u>				,							
	-\f		300				)     	5	500	= '	Time		<u>.,</u>											
Wilmington, MA	8	3			reord	reorder	0 K	+	2 8	1	3 2	8 6	Т											
	-											1	7											
																		i						

p-1 Line No.

DD Form 2445, JUL 87

5 Pages ō 4 Page

36

				Sep	П					Τ	Τ	Τ	Γ	Ī	Τ	Т		Τ	Τ	Γ				Т	1	d e	
				Aug		$\dagger$	+	-	T	$\dagger$	T		-	$\dagger$	+		+	$\dagger$	$\dagger$		-	H	-	+	1	Jun Jun Auglsep	
				) Inc		t	$\dagger$		$\vdash$	-	$\dagger$	+	$\vdash$	+	$\dagger$	+	$\vdash$	+			-		+	+	\ \  -	4	
				Jun		$\vdash$	+	İ	$\vdash$	-	╁	$\vdash$	$\vdash$	╁	╁	╁	+	╁	╁	H	-		+	+	1 2	ירן	
997			_	e J		╁	+	<u> </u>	╁		$\vdash$	-	H	╁	$\vdash$	╁	+	┢	-		H		$\dashv$	+			
ary 1			5	≥ ā		╁	+	$\vdash$	$\vdash$	╁	╁	H	$\vdash$	+-	$\vdash$	-	┝	$\vdash$	-			$\vdash$	+	+	2		
E: February 1997			ear	ar		╁	╁	_	├	-	$\vdash$	-	-	-	┝	├	$\vdash$	$\vdash$	L		$\vdash$		_	+	Δ	<u> </u>	
DATE:			ler Y	Ψ	$\vdash$	╁	╁	-	$\vdash$	H	-	-	-	$\vdash$	┝	-	_	-	-			-	4	+	ž	31/11	
<del> </del>	- 5		Calender Year	ın Fe		╀	╁╴		├	H	-			$\vdash$	├	-	┝	-	-	Н	$\dashv$	_	+	+	E		
	AR		Ö	Aug Sep Oct Nov Dec Jan Feb Mar Apr Ma Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Ma	$\vdash$	-	_	_	$\vdash$	┝	$\vdash$	-	-	H	-	-	_			Н		4	+	+	Aug Sep Oct Nov Dec Jan Feb Mar Apr Ma Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Ma		
	FISCAL YEAR			)v De		╀	$\perp$	_	-			_		-	-	├	┡	_	Н		_	$\dashv$	+	+	V De	2	
	SCA			ct No		-	-	H	H	L	H	H	-	-	_	-	-		Н	4	-	4	+	$\downarrow$	2		
32	E			) O	-	┝	-			H	09		_	_		<u> </u>	_		Н		_	4	4	-	l o		
(E72195)				g Se		L	$\vdash$	L.	L	_	50	L	L	L	L	-	L	L		4	4	4	+	09	Sei		
<u>m</u>				Αn			$\vdash$		_	L		_	_	_		L	L	L		4	_	4	$\downarrow$	20	A		
				n Ju		L	$\perp$		_	L	0 50		L	_		_	Ц		Ц	_	4	4	1	20	2		
		İ		3		L	$\sqcup$		L	L	0 50	_		_	L	_	L			_	4	4	4	20	λ	3	
M93		ı	8	Z Z	4-	_	Н		L		4 50			L	L		Ц	Ц	Ц	4	4	_	4	20	Ma		
ion		ļ	ä	T Ap	_	Ļ	Н				44				L			Ц	Ц		_	$\perp$	_	44	Apr		
Munit			Calender Year	Σg	$\bot$	L	$\sqcup$							L	Ц	Ц				_	4	1		_	Mar		
latur rea l	8		lend	Fel	$\bot$	L	Н				Ц					Ц				_	1	4	_		Feb		
P-1 Item Nomenclature Wide Area Munition M93	AR A	-	్రి	C Jar	+	L	Н	_	_					Ш	Ц	Ц		Ц		4	4	1	$\downarrow$	1	Jan		
2 >	FISCAL YEAR		ŀ	V De	+	L	$\sqcup$	_		Н	4					Ц			Ц	4	4	_	_	L	) De	<u>,                                    </u>	
T T	SCA.			2	+	_	Н			Ц							Ц	$\Box$	Ц	4	1	4	1	_	ź		
4	Ë		-	ŏ	_		$ \cdot $	4	Ц	Ц			_							$\downarrow$	4	4	$\bot$	_	ő		
		i	ŀ	g Se	$\perp$		Н	4				4	_							$\downarrow$	4	4	1	L	Sep		
			-		4		Н	$\dashv$	_	_	4	_				Ц			4	4	_	1	1	Ļ	_	-1	
			ŀ	3	-		Н	_		8		_							_	4	4	4	$\bot$	09	3	·	
				Jun			Ц	4		8	4	_					Ц		_	4	_	_	_	8	亨		
111			66	Σ	$\perp$		$\sqcup$	4	1	50	4	_	_						4	4		4	$oldsymbol{\perp}$	20	Σ		
) OC.			ä	Ap	$\perp$		Ц	_	4	45	_		_		$\sqcup$			$\perp$		_	_	$\perp$	ļ	45	Apr		
HED			Calender Year	₩	$\bot$	_	Ц		4	_	$\dashv$						Ц	$\perp$		4	$\downarrow$	_	$\perp$	L	Mar		
SC	66		end	Fet	- -		Ц	_	4	4		_	4						$\downarrow$	4	1	1	_	L	Feb		
NO I	씱	-	ပ္ပ	Jar	- -		ete	4	_	_	4			_	_			_		1	1	$\perp$		<u> </u>	Jan		
CTI	YE		_	, De	$\bot$	_	ф	4	_	_	$\downarrow$	_	_	_	_	ightharpoonup	$\perp$	$\downarrow$	$\bot$	$\downarrow$	$\perp$	$\downarrow$	$\downarrow$	L	Dec		
   nac	FISCAL YEAR		86	Oct Nov Dec Jan Feb Mar Apr Ma	Щ	_	<u>ပ</u> ု	_	_	$\perp$	$\downarrow$		_	_		ightharpoonup	$\bot$	$\bot$	$\perp$	$\perp$	_	$\perp$	1		Oct Nov Dec Jan Feb Mar Apr Ma Jun Jul		
PRC	FIS	$\perp$		Ö	Ш		žį.							$\rfloor$			_		_	$\downarrow$	1	╧	┸		oct		
FY 96 BUDGET PRODUCTION SCHEDULE		RER/	EAR				1. M93 Wide Area Munition-Complete	FY96	FY97	FY98	FY99																
Dar		ITEM/MANUFACTURER/	PROCUREMENT YEAR				e Ar																				
3 BL		TANUE	UREM				Vid																				
/ 9(		TEMA	ROC				M93																				
Ĺ				L	Ш		<del>-</del> -			_	_	لــ												L			

DD Form 2445, JUL 87

36

P-1 Line No.

Page 5 of 5 Pages

	BOI	BUDGET ITEM JUS	JSTIFICATION SHEET	EET		DATE	Eshinon 1007	
APPROPRIATION / RIJDGET ACTIVITY	TIVITA						replicaty 1997	
				P-1 ITEM NOMENCLATURE	¥			
•	PROCUREMENT OF AMMUNITION /Ammunition	JNITION /Ammunition				BUNKER DEFEATING MIIN	BUNKER DEFEATING MINITION (TACTICAL) (F88401)	
							יייייייייייייייייייייייייייייייייייייי	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	EV 2004	- A	0000
VITITALITY	3700				2007	1002 1	LT 2002	FY 2003
COMMITT	6177	1400	0	0	c	c		
COST (in millions)	311				,	•	>	>
(all Hillinories)	14.0	10.0	0.0	0.0	0	0.0	ć	
					9:5	0.0	0.0	0.0
DESCRIPTION:								

AT4 and the M72, LAW) are ineffective against bunkers. The BDM is light-weight (16.1 lbs.), man-portable and air deployable. The BDM will be used by contingency forces. This item is Code B, not approved for service use. This item has not transitioned to the SMCA and will be procured as actual The need for the BDM SMAW-D was identified during operations Urgent Fury, Just Cause and Desert Shield/Storm. Other systems available (M136, The Bunker Defeat Munition Shoulder-Launched Multi-purpose Assault Weapon - Disposable (SMAW-D) is a stand-alone, single shot, disposable munition which is used to defeat earth and timber field fortifications (bunkers). It also defeats light armored vehicles and breaches masonary walls.

# JUSTIFICATION:

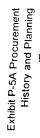
The FY 1997 procurement supports contingency forces only. RDT&E funding is not budgeted for to type classify BDM, TC-Standard, approved for service use. Efforts to complete the TC Generic were budgeted in PE 64802.

Type Classified (TC) Generic August 1993 & TC LP September 1994

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropri Activity Ti Procurement	A. Appropriation Budget Activity Title/No. Procurement Ammunition,	, ARMY/Activity 1.		B. WEAPON BUNKER DEFEP (TACTICAL) (	B. WEAPON BUNKER DEFEATING MUNITION (TACTICAL) (E88401)	NO	C. MANUFACTURER PLANT CITY/STATE TALLEY, MESA, AZ	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION TALLEY, MESA, AZ	NOI	p. DATE Februar	VTE February 199 <i>1</i>
		Ammunition	FY96			FY97			FY 9.8			FY 99	
Weapon System Cost Elements	Ident. Code	Unit	Qty	Total Cost	Unit	Qty	Total	Unit	Qty	Total	Unit	Qty	Total
HARDWARE 1. COMPLETE ROUND 2. FIELD HANDLING SYSTEM	æ	5808 1504	2,215 133	12,860	5963	1400	8348 146						
SUBTOTAL HARDWARE COST				13,060			8, 494						
PRODUCTION SUPPORT  1. ENGINEERING SUPPORT  2. QUALITY ASSURANCE  3. PROOF & ACCEPTANCE  4. INTERIM TRANSPORTATION				852 171 448 50			843 171 448						
				-			207						
NON-RECURRING COST				•		*	•						
SUBTOTAL NON-RECURRING COST				0			0						
TOTAL P-1 LINE ITEM				14,581			9,991						
PROGRAM UNIT COST				6,582.84			7,136.43						
				P-1	SHOPPING LIST Item No. 37 Page 2 of	ST Page 2 of 4		UNCLAS	UNCLASSIFIED	Exhibit	P-5 Weapon Sy	Exhibit P-5 Weapon System Cost Analysis	/sis

	BUDGET PROCUREMENT HISTORY AND	PLANNII	ORY AND PLANNING EXHIBIT (P-5A)					DATE		
B. APPROPRIATION / BUDGET ACTIVITY			(500.1)					Fe	February 1997	266
PROCUREME	PROCUREMENT OF AMMUNITION / 1 / Ammunition				C. P-1 ITEM NOMENCLATURE	OMENCLATU	RE			
CATO ACCITOMATE		TOARTHOO			BO	NKER DEFEA	BUNKER DEFEATING MUNITION (TACTICAL) (E88401)	TACTICAL	) (E88401)	
LINE II EM / FISCAL TEAK	CONTRACTOR AND LOCATION	METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST	ΔTY	UNIT COST	SPECS AVAIL	SPEC REV	IF YES WIA
1. COMPLETE ROUND		DAIL ONE			DELIVERY	Each	s	MOM	REQ'D	
FY 96 FY 97	TALLEY, MESA, AZ TALLEY, MESA, AZ	SS/FP SS/FP	ARDEC ARDEC	Sep-96 Mar-97	Mar-98 Sep-98	2215	5806	0 11	Ç	
2. FIELD HANDLING SYSTEM					) }	)		3	2	
FY 96 FY 97	TALLEY, MESA, AZ TALLEY, MESA, AZ	SS/FP /	ARDEC ARDEC	Sep-96 Mar-97	Sep-97 Sep-98	133	1504	YES	02	
						·			)	
					· · · · · · · · · · · · · · · · · · ·					
							-,		·	
					<del></del>					
						-				
			7.,							
REMARKS:						1		7	$\dashv$	

Item No. 37 Page 3 of 4



À.

77

RODI
PROC ACCEP.
SQTY
FY E x1000 TO R 1 OCT V
$\vdash$
-
FY 97 A 1
7
PRODUCTION RATES
_
MIN. 1-8-5
750 1500

N SHEET
JUSTIFICATION
ITEM
BUDGET

									1		ŗ	יים מוומחר	0		
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	ITY					P-1	P-1 ITEM NOMENCLATURE	ICLATURE		I I	FEBRUARY 1997	1881		T
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, AR	MY/ACT	IVITY 1.	AMMUNITION	ITION		ROCK	ROCKET HYDRA 70 ALL TYPES	O ALL TYP	ស្ត				(E37300)	(00)
	FY	96	FY	97	FY	86	ΕΥ	00	) 1	6	2	5	6		
QUANTITY	-0-	,	-0-		-0-			-0	-0-	00	-0-	-0-	70	0 /	03
E		+		1		T									
(In Millions) \$		3	27.3 \$ 26.7		\$ 12.1	-	₩	120.7	\$ 123.6		\$ 113.4		\$ 11	\$ 115.5/129.4	٩. ٩

DESCRIPTION:

This budget line includes Rocket HYDRA 70 ALL TYPES.

DD Form 2454, JUN 86

1 of 25 P-1 SHOPPING LIST ITEM NO. 38 PAGE NO.

Page of Pages Exhibit P-40

			T				,			7
			TOTAL	18504	0	0	36330	65849	120683	
NDS)	97	66	UNIT	799.70	0.00	00.0	911.11	500.04		P-5
THOUSANDS)	FEBRUARY 1997	FY	QTY	23	0	0	40	132		EXHIBIT !
(DOLLARS IN	DATE		TOTAL	12067	0	0	0	0	12067	
1		86	UNIT	783.39	0.00	00.0	0.00	00.0	,	OF 25
AMMUNITION COST ANALYSIS	E37300)	FY	QTY	15	0	0	0	0		PAGE NO. 2
ANAL	ROCKET HYDRA 70 ALL TYPES (E37300)		TOTAL	0	16482	10229	0	0	26711	38 P
OST	HYDRA 70 A	16	UNIT	00.00	2384.38	1602.84	00.00	00.0		1
ON C	ROCKET	二	QTY	0	7	v	0	•		P-1 ITEM NO.
TII(	MACITION		TOTAL	0	0	5940	0	21362	27302	
MMUI	r ACTIVITY:	96	UNIT	00.00	00.00	1650.70	00.00	468.86		
A	r ACTIV	FY	QTY	0	0	₹	0	Φ.		
	APPROPRIATION BUDGET ACTIVITY:		SSN/ITEM:	(E37335) ROCKET HYDRA 70 HE/PD H151/M423	(E37327) ROCKET HYDRA 70 MPSM HE M261 WHD	(E37330) ROCKET HYDRA 70 SMOKE M264	(E37334) ROCKET HYDRA 70 MPSM PRAC H267	(E37337) ROCKET HYDRA 70 SIG PRAC 4274	TOTAL P-1 LINE ITEM	DD FORM 2448, AUG 89

												DATE				
	BUDGET ITEM	H	ITEM	SUS	TI]	TICA	TI	JUSTIFICATION SHEET	SHE)	E H			FERRIARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVIT	ζ.				$\vdash$	P-1 ITEM NOMENCLATURE	4 NOMEN	ICLATURE						T
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION,	ARMY/	ACTIVITY 1		AMMUNITION			ROCKET H	YDRA 70	ROCKET HYDRA 70 HE/PD M151/M423	151/M423	~			(E37335)	
	FY	96	FY	97		FY	86	FY	66	FY	00	FY	0.1	01 02 FY		0 3
QUANTITY (Thousands)		-0-	-0-	,		15		23		24		20			20/20	
COST (In Millions)	÷.	-0-	-0-		₩	12.1	₩.	18.5		\$ 19.2		\$ 16.6		\$ 1	\$ 17.1/17.5	

#### DESCRIPTION:

of the warhead is threaded to receive the M423 fuze and is loaded with 2.3 lbs of Composition B4 explosive. The base 10 lb anti-personnel warhead with the M423 Point Detonating Fuze. The warhead consists of two main parts, the nose The nose end against area targets such as personnel, air defense systems, and materiel. The M151 HEPD is a unitary fragmenting The HYDRA-70 Weapon System is a family of aerial rockets used by Army Aircraft (APACHE, KIOWA WARRIOR, and COBRA) detonation, the warhead fragments into thousands of small, high velocity fragments. This item will be procured section is fabricated from steel or cast iron and is threaded for attachment to the MK66 rocket motor. Upon and the base, which is fabricated using nodular pearlitic malleable or ferritic malleable cast iron. through the CAWCF at a fixed standard price.

## JUSTIFICATION:

This is a war reserve item; used only in combat. The FY 98/99 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

26 February 1982

DD Form 2454, JUN 86

3 of 25 P-1 SHOPPING LIST ITEM NO. 38 PAGE NO.

Page of Pages Exhibit P-40

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1340-01-379-6277 (E37335)

PCN:P02QM1DOC43

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: ROCKET HYDRA 70 HE/PD M151/M423

roccompania de la compania del compania del compania de la compania del compania												
FY 96	λΙΟ)		) FY 97	7 (QTY		) FY 98	ăдо) 86		15403) F	FY 99 (QTY	λ.	23135)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ХĪŎ	UNIT	TOTAL	УТQ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.MK90 PROP GRAIN							15403 16482	468.04 194.38	7209 3204	23135 24755	477.84 198.45	11055 4913
SUBTOTAL			 						10413	:		15968
PRODUCTION SUPPORT						 						
1. PRODUCTION ENGINEERING 2. OUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPORT	£		. <b></b>			·			1064 120 120 369			1632 40 184 115 565
SUBTOTAL						<u> </u>   			1654			2536
**************************************	****	***	* * * * * * * * * * * * * * * * * * * *	*****	****	***************************************	***	783.39	12067!	***************************************	799.79	18504

P-1 ITEM NO. 38

PAGE NO. 4 of 25

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	Y 1997	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1340-01-3796277	1-37962		5 F I I I I
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNI	TION	ROCKET	HYDRA 70 H	ROCKET HYDRA 70 HE/PD M151/M423	en i		(E37335)	35)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REOD	IF YES WHEN
1. LOAD, ASSEMBLE, AND PACK (LAP)	] 	†	1 1 1 1 1 1 1 1 1 1 1 1				: 1		91010
FY 1998 TBS FY 1999 TBS	C/FP C/FP	100	APR 98 APR 99	SEP 99 SEP 00	15403	468.04	YES	ON	
2. MK90 PROP GRAIN					) 	# 0 · · · · · · · · · · · · · · · · · ·			
FY 1998 HERCULES AEROSPACE RADFORD, VA	SS/CPAF	IOC	MAR 98	AUG 99	16482	194.38	YES	CZ	
FY 1999 HERCÜLES AEROSPACE RADFORD, VA	SS/CPAF	IOC	MAR 99	AUG 00	24755	198.45			
REMARKS:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TBS - To Be Selected

P-1 ITEM NO. 38 PAGE NO. 5 of 25

Particularity Manufactory Amphibutory 1   Particularity Manufactory Amphibutory 1   Particularity Manufactory Amphibutory 1   Particularity Manufactory Amphibutory 1   Particularity Manufactory Amphibutory 1   Particularity Manufactory Manufact		E37335	J <sub>C</sub>		AUG SEP		00.0	0.00	1 011	23.0		00.0	0.00	0.00	1.014.0	23.0									1.037.0				
Tright   T				66	APR MAY JUN																								
Tright   T				CALENDAR YEAR	JAN FEB																								
The color of the					SEP OCT NOV	-																				RKS			
TUTITY 1. AMMUNITION  BALL  A SO T  OCT NOW DEC JAN FEB NAR AFR NAV JUR JUL ANG  15.0  0.0	ATURE	E/PD M151/M4.		86	MAY JUN JUL																						OTAL ER 1 OCT	24	
TVITY 1. AMMUNITION    No.   Part   P	TEM NOMENCI	T HYDRA 70 H	86	CALENDAR YEAR	DEC																					NT LEAD TIM	PROD.	17	_
TIVITY 1. AMMUNITION  but but but and a but but but but but but but but but but	P-1 I	ROCKE			SEP OCT NOV																					PROCUREME!	PRIOR AFTE	9	
TON BUDGET ACTIVITY  EXT AMMUNITION, ARMYACTIVITY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  PROGRAM QTY  TO TEXT BY  TO TE					MAY JUN JUL		 				-							-		+						25	<u> </u>	INITIV	_
ENT AMMUNITION, ARMYACTIVITY  ENT AMMUNITION, ARMYACTIVITY  ACCEPT BALL  RCCEPT BALL  ACCEPT BAL	ACTATEMENT	YEAR	97	CALENDAR YEAR	JAN FEB MAR										†  -											RATES MONTHS 1	46.00 0		
ENT AMMUNITION, ARMY/ACT  BY FY FY FY  96F 97 98 99 96  0.00  0.00  15.0  0.00  15.0  0.00  15.0  0.00  15.0  0.00  15.0	11111111	IVITY 1. A		96	OCT NOV	00.0	00	0.00	15.0	23.0		00.0	0.00	00 1	0.5.0	0.52	+								18.0	RODUCTION	2.00 15.00		
ENT AMMUNITI  PROGRA  FY FY   F  96F 97   9  0.00  0.00  0.00  15  0.00  16  17  18  PROGRA  P	ON ADMY/ACT		ACCEP.	1 001	FY 00	2	00 0	00.00		23.0	-	0.00	0.00	00.0	00.00	3				-									
[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	ATION/BUDGE	ENT. AMMONTED			FY FY	,	00.0	00.00					0.0	2						+			+		TOTAL MONTH PRODUCTION	MANUFACTUR	RE SELECTE		

FISCAL	TATE TOOK		
20 St 02 T T X	FISCAL YEAR	FISCAL Y	E37335
1 oct 1 oct	CALENDAR YEAR 00 CALENDAR YEAR 01	O2	0.5
OCT NOV DEC	JAN FEB MAR AFR MAY JUN JUL ANG SEP OCT NOV DEC JAN FEB MAR AFR MAY JUN	JUL AUG SEP OCT NOV DEC	APR
0.0			00.0
0.00 0.00 0.00			0.00
15.0	0.20.02.02		0.00
23.0 0.00 23.0	20.20.20.02.02.02.02.02.02	.02.02.0	00.0
0.00 0.00			
00.00			0.00
0.00 0.	-15		0.00
73 0 0 00 73 0	0.70		00.00
73.0 0.00 23.0	1.02.02.02.02.02.02.02.02.02.02.02.02.02.	0.00.00	0.00
TOTAL MONTHLY			
11.00	K.VI I I II.VK.VK.VK.VK.VZ.VZ.VZ.	0.20.20	0.00
MANUFACTURER NAME PRODUCTION RATES HAWTHS TO REACH MX & LOCATION AFTER D-DAY	PROCUREMENT LEAD TANKING	REMARKS	
SELECTED 2.00 15.00 46.00	1 OCT 1 OCT PROD. AFTE		
	0		
	REORDER 6 3 15 18	10	OUANTITY IN THOUSANDS

P-1 LINE NO. 38 PAGE NO. 7 OF 25 PAGES

-	BUDG	田工	BUDGET ITEM	JUS	JUSTIFICATION	ΆT.	TON	SHEET	T. it		DATE			
								ĺ	1		FE	FEBRUARY 1997	7997	
APPROPRIATION/BUDGET ACTIVITY	/BUDGET A	CTIVIT	¥				P-1 ITE	M NOME	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	MMUNITION	, ARMY,	ACTIVITY 1	. AMMUN	AMMUNITION		ROCKET 1	TYDRA 7	ROCKET HYDRA 70 MPSM HE M261 WHD	M261 W	HD			(E37327)
	FY	96	FY	97	FY	98	FŸ	66	FY	00	ĒΥ	0.1	02 FY	*0
QUANTITY		-0-	7				,		,					
(THOUSANDS)		>	•		) )		-0-		-0-		-0-		0 -	-0-/-0-
COST (In Millions)	ŧ۸	-0-	\$ 16.5		÷0-		-0- \$		\$		-0- \$		· · · · · · · · · · · · · · · · · · ·	-0-/-0-
												1		

### DESCRIPTION:

armor penetration. The submunitions contain a ram air decelerator (RAD) stablizing device and 0.2 pounds of Comp B-4 computer determined time to initiate the expulsion charge. Once the submunitions are ejected, the RAD's inflate and against area targets such as personnel, air defense systems, and materiel. The M261 Multipurpose Submunition (MPSM) Mod 3 rocket motor and is fired from either the M260 or M261 Light Weight Launcher. This item is Code A; approved high explosive with the body wall scored internally to optimize fragment size against personnel and materiel. The Each submunition has a copper shaped charge liner for submunition is fuzed with an M230 fuze which will function regardless of impact angle. M261 is mated to the MK66 The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) M439 fuze is remotely set from the aircraft with time to target data. After firing, the fuze functions at the warhead consists of a plastic nose cone assembly, an aluminum warhead case, an expulsion charge, and nine full the arming sequence starts as the submunitions enter into a near vertical descent over the target area. for service use. This item will be procured through the CAWCF at a fixed standard price. caliber M73 submunitions with an M439 remote setable fuze.

# JUSTIFICATION:

This is a war reserve item; used only in combat. Procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1985

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1340-01-379-7814 (E37327) PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI	T ACTIVITY ION, ARMY/ACTIV	/ITY 1.	AMMUNITION	z	P-1 ROCK	ITEM NOM	P-1 ITEM NOMENCLATURE: ROCKET HYDRA 70 MPSM HE M261 WHD	MZ61 WHD		DATE: NSN = 1	DATE: FEBRUARY 1997 NSN = 1340-01-379-7814 (E37327)	Y 1997 79-7814 327)
	FY 96 (QTY		) FY	FY 97 (QTY	ľY	6912)	FY 98 (QTY			FY 99 (QTY		
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	ΥΤΌ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.MK90 PROP GRAIN				6912 7396	1758.17 170.37	12152						
SUBTOTAL						13412			- <del>'-</del>			
1.PRODUCTION SUPPORT   1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TENTING ANTERNATION A	EERING 33 100 100 100 100 100 100 100 100 100		<b></b>			6131 1191						
5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARGE	SUPPORT SURCHARGE					127! 531! 1633!						
SUBTOTAL						3069			<u></u>			
**************************************	*****	* * * * * *	*	*******	2384.38	16481	******	*****	* * * * * * * * * * * * * * * * * * * *	**************************************	***	***

P-1 ITEM NO. 38

PAGE NO. 9 of 25

PCN PO2QM1DOD4Z

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	i	DATE:	DATE: FEBRUARY 1997	(Y 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1340-01-379-7814	1-379-78	314	1 2 3 4 7 7
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI	ITY 1. AMMUNI	TION	ROCKET	HYDRA 70 M	ROCKET HYDRA 70 MPSM HE M261 WHD	JHD		(E37327)	27)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1997 LOCKHEED MARTIN BURLINGTON, VT	C/FP	IOC	DEC 96	DEC 98	6912	1758.17	YES	ON	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2. MK90 PROP GRAIN FY 1997 HERCULES AEROSPACE RADFORD, VA	SS/CPAF	IOC	MAR 97	OCT 98	7396	170.37	YES	ON	
REMARKS:		] 1 8 1 1 1 2 1 2 8	1 1 1 1 1 1				 	; 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

LOCKHEED-MARTIN ORDNANCE SYSTEM WAS PURCHASED BY GENERAL DYNAMICS ORDNANCE SYSTEMS IN JAN 97. FY97 PROGRAM AWARDED AS A PERFORMANCE SPECIFICATION REQUIREMENT CONTRACT.

P-1 ITEM NO. 38

PAGE NO. 10 of 25

Joi.	E37327	ے_	· E F	.12	0.00	0.00	00.0	0.00			000																		T	0.0						وا
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E37			AUG SEP	+													1	-				1	1	1				-	-		1447			STIMESTONE IN VITTANTIO	USFINE
CONTR 1092				JUL							1		L	-					$\perp$					-				+	+	-	-	1340-01-269-1447			CDE I	
MENTS				NO C SER	+	-	<u> </u>	-		-	-	-	-	-				$\downarrow$	-	-		$\Box$		-							] ;	0-01			ξ.	
EQUIRE D-COME			99	APR MAY	+			+		$\dashv$	+	+	╁	H			$\dashv$	+	+	+			+	+	-	-	$\vdash$	+	1	L					ANTI	
α. Ω		i	R YEAR	X X				L			1	-						1	1					1				1				S. T. S.			C	
		YEAR 99	CALENDAR YEAR	JAN FEB	+			+	Н	-	+	03		-		$\dashv$	$\dashv$	$\dashv$	+	-	Н	$\dashv$	$\dashv$	+	+	Н	$\dashv$	+	+-	02.03.0		Z Z Z				
1997	- 1			DEC		- 13	20-2			7	1	0					1	1					1	1				1		2.02		NT OĞ				
		FISCAL	١.	OCT NOV	+	$\dashv$	-	-	H	$\dashv$	+	+	$\vdash$		Н	$\dashv$	+	+	+	╀	Н	+	+	-	+	H	+	+	+	Н		A CE				
FEBRI	Ī			SEP		1				$\downarrow$								1		Ĺ			1					$\perp$			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>=</b>				
DATE FEBRUARY	1 WHD			JUL AUG	+	+	+			+	+	╁	-			4	1	+	+	-	H	-	1	+	-	H	+	+	L	Ц	REMARKS FACE PROFITE TO THE	4				PAGES
	M261		86	202														-	$\perp$			+	$\dagger$	+		H	$\dashv$	+		$\dashv$	<u> </u>	<u>-</u> -	اء			
21)	70 MPSM HE			APR MAY	+	$\perp$	+			$\downarrow$	+	_	-			-		-	Ţ			1	$\bot$	1				1	I				AL &T	29	29	OF 25
	O MP	86	YEAR	X X													$\perp$	+	╁		H	+	+	+	-	$\dashv$	$\dagger$	+	$\left  \cdot \right $	$\dashv$	E CALL		AFTER 1			F
		YEAR	CALENDAR YEAR	JAN FEB	+	4	_	H		_	_		L		$\dashv$	4	$\downarrow$	$\bot$	I	ļ.,		-	1	1			1	1			1	G	PROD.	22	22	
1)	ROCKET HYDRA		ð	DEC J		1	$\pm$			$\frac{1}{2}$	$\dagger$				1	+	+	+	$\dagger$	┢		$\dagger$	$\dagger$	+			+	╁		-	FIN	7 2 2 3 3 1 3 1 3 1	α.F-			PAGE NO.
4		FISCAL		OCT NOV	H	-	$\perp$		$\perp$	-	-	L			1	_	1	1	-			1	1	1		$\Box$	1	1			DUME	LEGO	187	7	7	
	+	4		SEP						1	$\perp$					1	$\dagger$	+	+			+	+	╁	Н	$\dashv$	+	╁	Н	_	1000	ADMIN LEADTIME	PRIOR OCT	m	3	38
(EXHIBIT				JUL AUG	$\!$	+			$\downarrow$	_	$\bot$				$\neg$	$\prod$	-	1	_				1	1										IAL	DER	P-1 LINE NO.
EXI			97	ת אטר			$\perp$		+	+	-	$\vdash$		H	$\dashv$	+	+	+	+		$\dashv$	+	╁	╁	Н	+	+	+	Н	$\dashv$				INITIAL	REORDER	-1 [1]
1 1				R MAY		$\bot$	$\bot$		4	1	L					1	1	1	T				Ţ	I		1	1			╡		<u> </u>			 TT	à.
[ [ ]	2	_	EAR	MAR APR	$\dagger\dagger$	+	$\dagger$	H	+	+	+	H	Н	$\dashv$	$\dashv$	$\dagger$	+	+	+	$\vdash$	$\dashv$	+	╁	+	Н	$\dashv$	+	+	H	$\dashv$	OT SHITM	ACH MAX TER D-DAY	0			
SCHEDULE	TIO	97	CALENDAR YEAR	JAN FEB MAR	П	$\bot$			$\Box$	1				$\Box$	1	1	1	1	L				1			1	1				7 V	MINIMUM 1-8-5 MAXIMUM AFTER I	8		+	
	NAMOTA N	1	3	Ar DEC	H	+	-	H	$\dashv$	+	+			$\dashv$	$\dashv$	+	+	+	╁	Н	$\dashv$	+	+	+	Н	$\dashv$	+	╁	H	$\dashv$	μVQ	MAXI	15.00			
TIC	1. 1	4761	98	VOT NOV							L				$\Box$	1	1	Ţ					1	T		1		İ			TOTI	2-8-1 1-8-5	5.00			
Dac	ITI.	4 1	1 00 0		0.00	0.00	0.00	00.0	$\dashv$	5	88	00	Н	$\dashv$	+	+	╀	+	╁	Н	$\dashv$	+	+	╀	-	+	+	+	H	8	ייועכ	E.	2.00		+	ļ
PRODUCTION TY	CTIV	SP. BAL			9	9 6	00.	000	$\dashv$	000	0.00 0.00	0.00 7.00		$\dashv$	+	+	+	+	╁	Н	-	+	+	+	Н	$\dashv$	+	+	H	0.00 7.00	)aa	NIN	7			
LIVI	RMY //	ACCEP.	- 1		П	000	0.00	00.00	$\downarrow$	٩	0	0		$\dashv$	4	$\downarrow$	+	+	╀	Н	+	$\downarrow$	+	-	Н	4	-	$\perp$	Ш			NAME				
AC	N, A	PROGRAM QTY	·	FY 99	<del>!                                    </del>	_		0.00	$\downarrow$	1	-			_	$\downarrow$	1	+	1	$oxed{\bot}$	Ц	$\dashv$	4	$\downarrow$	$\perp$	Ц	4	1			$\prod_{r}$		XZ XZ				
DGE	NITIO	GRAM	г	Y FY	<del>     </del>	1	0.00	$\parallel$	+	+	╀	9		4	+	+	+	╀	$\dotplus$	Н	4	+	+	╀	Н	+	+	+		PRODUCTION		AANOF ACTURER LOCATION	SELECTED			
N/BL	AMMU	PRO	-	FY FY 96B 97	1 1	00.00			+	5	88	7.00	$\dashv$	+	+	+	+	+	+	Н	$\dashv$	+	+	╀	H	$\dashv$	+	$\perp$		Spuc.		F F F F F F F F F F F F F F F F F F F	SELI			
PEAPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	्र ज्ञा		$\neg$	افا	-	Н	H	+	- L			-	$\dashv$	+	+	+	+	╁	Н	+	+	+	+	H	+	+	+	H	P. C.		MAIN &	TO BE			
<u>opri</u>		D:		+		4 4 4 4	KA	K A	$\downarrow$		F	ALL		$\dashv$	$\frac{1}{2}$	+	$\downarrow$	+	$\perp$	Н	$\downarrow$	$\downarrow$	$\downarrow$	₽	H	$\downarrow$	$\downarrow$	$\vdash$	H		  -	, .		+	$\dagger \dagger$	
APPR	PRO	FAC	0			-	1																								[	NO.		Ш		

Ì

	i 1	j									DATE				
	BUDG	LE I	BUDGET ITEM	JUS	TIF	CAT	JUSTIFICATION SHEET	SHE	ET		Li Li	FFRRIIARV 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	/BUDGET A	CTIVIT	λ				P-1 IT	EM NOME	P-1 ITEM NOMENCLATURE						
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	MMUNITION	, ARMY	/ACTIVITY 1	. AMMUI	AMMUNITION		ROCKET	HYDRA 7	ROCKET HYDRA 70 SMOKE M264	264				(E37330)	. (6
	FY	96	FY	97	FY	86	FŸ	66	FΥ	C	FΥ	0.1	) FY		) °
VITITV		4	9			-0-	- 0 -		C	3			70		3
(Thousands)						,	)				101		i	- O - / - O -	
COST (In Millions)		о 2	, 10, 2		v										
(2000)		5:5	,		·	-0-	-0- &	-(	-0- \$		-0- \$		v.	- 0 - / - 0 -	

#### DESCRIPTION:

assembly, an aluminum warhead case, a remote setable primary fuze (M439) with an umbilical cable, an expulsion charge, The M264 is designed to provide longer stand-off range and integration with the M439 range setable fuze. The M439 fuze permits the firing aircraft to remain in defilade and place smoke at ranges up to 6 kilometers. The M264 replaces a similar rocket that consists of a M259 white phosphorus warhead and a MK40 rocket the M264 red phosphorus (RP) warhead and the MK66 Mod 3 rocket motor. The warhead consists of a plastic nose cone and 72 RP wedges. The M264 warhead uses RP because of its stability and improved performance as a screening agent The HYDRA 70 Weapon System is a family of aeriel rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The systems smoke rocket consists of This item will be procured through the CAWCF at a fixed motor. This item is Code A, approved for service use. in hot temperature conditions. standard price.

## JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

July 1995

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS) APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

P-1 ITEM NOMENCLATURE: ROCKET HYDRA 70 SMOKE M264

DATE: FEBRUARY 1997 NSN = 1340-01-289-4719 (E373330)

PCN:P02QM1DOC4Z

	FY 96 (	(QTY	3598) 1	FY 97 (QTY	ľY	6381) FY 98	FY 98 (QTY	¥	(F	FY 99 (QTY		^
ELEMENT OF COST QM: EACH	УTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	YTQ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.MK90 PROP GRAIN	3850	1330.05	4786	6381 6828	1154.90 189.96	7369						
SUBTOTAL			5448			9998						
PRODUCTION SUPPORT			<u></u> -									
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3 ACCEPTANCE TESTING	INEER ING ICE TNG		1691			360						
4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT	RTATION X SUPPORT		2211			9.89 2.44						
6. CAWCF GAIN/LOSS SURCHARGE	SURCHARGE					1014						
SUBTOTAL			491			1562						
**************************************	i Mi	1650.70		****	1602.84	10228	**************************************	***	******	****	****	***

PAGE NO. 13 of 25 38 P-1 ITEM NO.

PCN PO2QM1DOD4Z

	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROCUREMENT HISTORY & PLANNING	r HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	۲۲ 1997 ع	1
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1340-01-289-4719	1-289-47	719	1 1 1 1 1 1 1 1
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNI	TY 1. AMMUNI	TION	ROCKET	ROCKET HYDRA 70 SMOKE M264	MOKE M264			(E37330)	30)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	LE YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		; ; ; ; ; ; ; ;		; ; ; ; ;	
FY 1996 LOCKHEED MARTIN BIJR, INGTON VT	C/FP	IOC	DEC 96	DEC 98	3598	1330.05			
FY 1997 LOCKHEED MARTIN BURLINGTON, VT	C/FP	IOC	DEC 96	JAN 99	6381	1154.90	YES	ON	
2. MK90 PROP GRAIN									
FY 1996 HERCULES AEROSPACE RAPPORD VA	SS/CPAF	IOC	MAR 96	VOV 97	3850	172.00			
FY 1997 HERCÜLES AEROSPACE RADFORD, VA	SS/CPAF	IOC	MAR 97	NOV 98	6828	189.96	YES	NO	
REMARKS:	1 1 1 1 1 1 1 1 1	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	; ; ; ; ; ;			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! !	1	4 / - - - - - - - - - - - - -

LOCKHEED-MARTIN ORDNANCE SYSTEM WAS PURCHASED BY GENERAL DYNAMICS ORDNANCE SYSTEMS IN JAN 97. FY96 AND FY97 PROGRAM AWARDED AS A PERFORMANCE SPECIFICATION REQUIREMENT CONTRACT.

P-1 ITEM NO. 38

PAGE NO. 14 of 25

REQUIREMENTS CONTROL SYMROL DD-COMP (AR) 1092	F37330	7	T 66	APR MAY JUN JUL AUG SEP E	c	00.0	0		0.00		0.00		0.1									.0000			QUANTITY IN THOUSANDS
DATE FEBRUARY 1997	264	FISCAL YEAR	86	R APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB HAR			1.02.00	-				0 00 1	-  -									0.20.20.03.01	ME REMARKS	AFTER 1 oct 29	29
(EXHIBIT	P-1 ITEM NOMENCLATURE ROCKET HYDRA 70 SMOKE M264	FISCAL YEAR 98	97 CALENDAR YEAR	APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB WAR																			BANK ADMIN LEADY TIME ADMIN LEADY TIME PEARY PRIOR AFTER ACCORDANCE ACCORDANCE ACCOR	PROD. 22	REORDER 6 7 22
PRODUCTION SCHEDULE	I ACTIVITY DN, ARMY/ACTIVITY 1. AMMUNITION	ACCEP. M. FISCAL.	1 oct 1 oct 96	F I OCT NOV DEC JAN FEB MAR	0.00	0.00 4.00			0.00 0.00 0.00	0.00 0.00	0.00 4.00	00.00 6.00										0.00 1.0.01	PRODUCTION RATES MONTHS INDICATES PRACTICE SUST. 1-8-5 MAXIMUM AFTER	VT 2.00 6.00 15.00 0	
PF	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	FAC U E PROGRAM QTY	Σ.	17	A 0.00	K A 4.00	A 6.00	Q V	K A	ALL D.00	0.0	ALL 6.00									TOTAL MONTHLY	PRODUCTION	AC MP	1 LM, BURLINGTON VT	

SHEET
JUSTIFICATION
ITEM
BUDGET

						DATE			
AT	CATION SHEET	SHE	因	<b>.</b>		Į±,	FEBRUARY 1997	1997	
	P-1 1T	P-1 ITEM NOMENCLATURE	NCLA	TURE					
	ROCKET	ROCKET HYDRA 70 MPSM PRAC M267	0 ME	SM PRA	C M267			(E37334)	34)
98	FY	66		FY	00	FY	0.1	02 F	03
	40	_		40		35		34/40	
	\$ 36	36.3	₩	37.1		\$ 33.0	. 0	\$ 33.4/39.8	ε.

33.4/39.8

-0-

-0-

₩

-0-

(In Millions)

COST

-0-

-0-

6

(Thousands) QUANTITY

FΥ

97

ᅜ

96

FY

AMMUNITION

PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.

APPROPRIATION/BUDGET ACTIVITY

#### DESCRIPTION:

with a flash powder smoke signature, take the place of the nine M73 submunitions. Six inert submunitions are used to against area targets such as personnel, air defense systems, and materiel. The M267 Multi-Purpose Submunition (MPSM) practice round is identical in operation to the M261 tactical warhead except that three M75 practice submunitions, rocket motor with electromagnetic radiation protection, and is required to train with the fire control and rocket The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) This item is Code A, approved for service use. complete the weight and balance requirements. The M267 uses the M439 remote fuze, is mated to the MK66 Mod 3 This item will be procured through the CAWCF at a fixed standard price. management systems on the COBRA and APACHE attack helicopters.

## JUSTIFICATION:

builds a depot level in accordance with the Army's procurement goals. The M267 MPSM Practice round provides a This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and cleaner, more effective rocket with which to train pilots.

TYPE CLASSIFICATION DATE:

1982

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1340-01-379-7889

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION ROCCKET HYDRA 70 MPSM PRAC M267	.C M267	DATE: NSN =	DATE: FEBRUARY 19 NSN = 1340-01-379-7 (E37334)	Y 1997 79-7889 334)
FY 96 (QTY ) FY 97 (QTY ) FY 98 (QTY		) FY 99 (QTY	X	39874)
ELEMENT OF COST UNIT OTAL OTY COST TOTAL OTY COST TOTAL OTY	UNIT COST To	TOTAL QTY	UNIT	TOTAL
HARDWARE		39874 42666	573.91 198.45	22884 8467
SUBTOTAL				31351
PRODUCTION SUPPORT				3204
4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPORT				361 226 1110
SUBTOTAL				4979
TOTAL P-1 LINE ITEM:	***	**************************************	911.11	36330

P-1 ITEM NO. 38

PAGE NO. 17 of 25

PCN PO2QM1DOD42

		PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	DATE: FEBRUARY 1997	kY 1997	1
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	ATURE	NSN = 1340-01-379-7889	1-379-78	889	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNI	rion	ROCKET	HYDRA 70 M	ROCKET HYDRA 70 MPSM PRAC M267	,		(E37334)	34)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)		1 1 1 1 1 1 1 1 1 1	 	! ! ! !			! ! ! ! !	: : : : : :	:
FY 1995 LOCKHEED MARTIN BIDI INCHON VIT	C/FP	IOC	NOV 95	FEB 98	42319	404.87			
FY 1999 TBS	C/FP	IOC	APR 99	FEB 01	39874	573.91			
2. MK90 PROP GRAIN FY 1995 HERCULES AEROSPACE	SS/CPAF	IOC	DEC 94	JAN 96	45282	183.37			
FY 1999 TBS	C/FP	IOC	MAR 99	AUG 01	42666	198.45			
REMARKS:				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1	!

TBS - TO Be Selected LOCKHEED-MARIIN ORDNANCE SYSTEM WAS PURCHASED BY GENERAL DYNAMICS ORDNANCE SYSTEM IN JAN 97.

	4		, r	اعر	8	8	8	3 0	?		8	00	3 8	9	?	T					Τ	Τ		Ţ					-	ો _					
dBOL.	E37334	٦٨	:E''		00.0	0.00	0.00	00.0	-	$\sqcup$	0.00	0.00	3 8	00.00	2	$\perp$	Щ		_	$\perp$	-	<u> </u>	Ц	1	$\perp$	$\perp$	$\sqcup$	_	1 5	0.0	<b>KS</b>			Š.	3
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E3			SEP	-	$\square$	_	+	+	Н		_	1	-	+	$\perp$	Щ		_	$\bot$	$\perp$		$\sqcup$	_	-	$\bot$	$\coprod$	_	$\sqcup$	41	FOR APPLICABLE REMARKS			TN THOITSANDS	
rrro 9.2				AUG	+		4	$\bot$	1		_	$\perp$	$\perp$	_	_	_	Ц	_	_	_	$oldsymbol{\perp}$	L		_	$\perp$	↓				4	[2]			PHO!	
103				Jul	-		_	4-	_		4	4	4	_	1	╄		_	4	$\bot$	$\perp$	$oxed{oxed}$			_	1	$\coprod$			4	ABL!			Z	
(AR)				205	_	i I			_		_	$\perp$	$\perp$	_	$oldsymbol{\perp}$	ot			1	$\perp$					_	$\perp$	Ш	$\perp$			ZZI'				
IREM			99	ž			_	_	L		$\dashv$	_	$\perp$	$\perp$	$\perp$	<u> </u>	Ц	$\perp$		$\perp$	_	Ц		_	1	_	Ц				PPI			TIT	
REQU DD-C				APA APA	_		4	4	_			4	1	1	1	<u> </u>	Ш	_	4		L			$\perp$		Ļ		_			R.			OUANTITY	
			YEAR	¥ 5	_	Ц	_	1			_	4	$\perp$	$\perp$	$\perp$	<u> </u>		_	_	$\perp$	_	Ш		$\perp$				┸			F			0	
		1R 9	CALENDAR	E B	<b>.</b>		_	_	$\perp$		_	1	1	$\perp$	$\perp$	L			$\perp$	$\perp$		Ц		_						]	EET				
7		YEAR 99	5	JAN	4	Ш	_	$\downarrow$	$\perp$		4	_	1	$\perp$	ļ.,	$\perp$		4	$\perp$	1					_	ot		_		]	HS I				
1997				DEC	╄		4	4	_		4	4	$\downarrow$	$\downarrow$	_	_		4	_	$\perp$	_	Ц		$\perp$	1	<u> </u>	Ц	$\perp$		]	<u> </u>				
RY		FISCAL		NON NO	-	Ш	_	_	_	Ц	4	4	$\bot$	╀	1	<u> </u>		4	_	$\perp$	_	Ц		$\perp$	_	L		1		$\prod$	DEN			j	
FEBRUARY		됴	-	8	4	Ш	-	_	lacksquare	Ц	4	4	4	1	↓_	L		4	_	$\perp$	$\perp$		4	4	$\perp$	Ш	$\perp$		Ц_		REFER TO ADDENDUM SHEET				
FEB				438	_	Ш	-	$\perp$	lacksquare	Ц	4	4	1	$\downarrow$	↓_	ļ.,		4	4	╄	Ļ	Ш	$\perp$	_	$\perp$	Ц	$\perp$		Ц	]   <sub>S</sub>	₽			j	
DA'TE	67		l	YUG.	4	0	$\perp$	1			4		1	╀	1	L	4	4	$\perp$	1	L		_	$\perp$	$\downarrow$	Ц		Ш		A BE	E				SES
<u>a</u>	MZ			Jur	4		$\bot$	4	$\perp$	Ц		<u> </u>	$\downarrow$	$\perp$	<u> </u>	<u> </u>		4	_	$\perp$	_	Ш	4	_	$\perp$	Ш		$\perp$	4		<u> </u>				PAC
	ENCLATURE 70 MPSM PRAC M267		88	NO.	4	.05.04	_	$\perp$	_	Ш	$\perp$	8 8	$\perp$	$\perp$	1	Ц		$\perp$	$\bot$	1	Ц	Ц	$\perp$	_	$\perp$	Ц	$\perp$	Ш	.03.05.05.05.05.05.05.05.05.05.05.05			OCT			19 OF 25 PAGES
	ITEM NOMENCLATURE KET HYDRA 70 MPSM PR			Ϋ́ΥΫ́		9	4	$\perp$			$\downarrow$	9	1	$\downarrow$	L	igspace		4	_	$\perp$				_	$\perp$	Ц			و ا			 	6	29	F
	LA		_	AP.	$\perp$	05.05.05.05.05.05	$\perp$	$\downarrow$	-		4	8	╀	_	L	Ц	$\perp$	$\downarrow$	$\downarrow$	L	Ц	Ц	4	$\downarrow$	<u> </u>	Ц		Ш			TIME	AFTER 1	7	7	Ğ
	NG 19	98	CALENDAR YEAR	ă ă	-	9	-	$\bot$	Ц	Ш			╀	$oldsymbol{\perp}$	ļ.,		_	4	$\bot$	↓	Ш	Ц	4	4	<u> </u>	Ц		Ш			r '/	T		$\vdash$	1.4
1	S SM	AR	ENDA	FEB	$\bot$	ig ig	_	$\bot$	$\sqcup$	Ц	4	<u>.</u>	1	$\bot$	L	Ш	4	4	4	L	Ц		$\dashv$	_	$\perp$		$\perp$	$\bot \bot$	يوا ـــ		AD	PROD.	22	22	Š.
		ΥE	5	23.00	+	넝	+	$\perp$	$\vdash$	Н	4	넑_	+	╀	Ļ.		4	+	+	╀	$\sqcup$	$\sqcup$	4	_	╄		$\bot$	$\sqcup$	——————————————————————————————————————		ᄀ	ă.	~		PAGE NO.
21	P-1 ITEM NOM ROCKET HYDRA	AL		A DEC	╁┤	8	-	+	Н	Н	4	.05.05.05	+	╀	┡	Н	4	+	-	╀	Н	4	4	-	$\bot$	Ц	_	$\sqcup$	- <u> </u>		ENEL ENEL	TER	7	-	Id
1 1	P-1 ROCE	ISC		T. NOV	+	9	+	╀	H	Н	+	<del>-  </del>	╀	╀	ļ	Н	$\dashv$	+	+	₽	Н	$\dashv$	+	+	╀	Н		+	- le		REM	AF.		Ц	ω
1 1	<u>-                                    </u>	<u> </u>		SEP OCT	+	8	+	╁	Н	$\dashv$	+	9	╀	╀	╀	Н	$\dashv$	+	+	╀	Н	$\dashv$	+	+	╀	$\sqcup$	+	+			PROCUREMENT LEAD  [ADMIN LEADTIME]	OCT	9	မ	38
(EXHIBIT				AUG	+	.05.05	+	╀	Н	-	+	.05.05.05	╁	╀	┢	Н	$\dashv$	+	+	╀	Н	$\vdash$	+	+	╀	Н	+	1 1	<del>-   i</del>			M.		닏	
빞			П	JUL	+	8	+	╀	H	H	+	8	+	╀	├	Н	$\dashv$	+	+	╀	Н	$\dashv$	+	+	╀	$\vdash$	-	+	<u> </u>				[IA]	SDE	NE 7
X				TO NO.C	+	의	+	╁	Н	Н	+	9	╁	╀	╀	Н	$\dashv$	+	+-	╁	Н	$\dashv$	+	╬	╁	$\vdash$	+	╀┦	<del> </del>   9				INITIAL	REORDER	P-1 LINE NO.
			97	MAY JI	╫	흮	╫	+	H	$\dashv$	+	9	╁	╁	├	Н	$\dashv$	+	+	╀	Н	$\dashv$	+	+	╁	Н	+	╂╾╂	<del> </del> 8	[	$\bot$		<u> </u>	~	심
띰			li	APR M	+	4	+	+	H	$\dashv$	+	4-	╁	╁	╁╴	Н	$\dashv$	+	╁	╁╴	Н	$\dashv$	+	+	╁╌	Н	+	╂┤	┯	1	ž o x č	T	П	$\Box$	
			ž	×	+	+	+	+	Н	$\dashv$	+	+	+	╁╴	╁	Н	$\dashv$	+	+	╁	Н	$\dashv$	+	+	╁	Н	+	╁┤	+	} {	55 E				
SCHEDULE	NOI	97	CALENDAR YEAR	JAN FEB MAR	††	$\dashv$	╁	+	H	$\dashv$	+	╁	╁	╁	┢	Н	$\dashv$	+	+	╁╴	Н	$\dashv$	+	+	╁	Н	+-	+	╁	1	PRODUCTION RATES MONTHS TO MINIMUM AND AFTER D-DAY	10	9	$\dashv$	
SC	I	EAR	MENE	2	+	$\dashv$	$\top$	†	Н	+	$\dagger$	$\dagger$	十	╁╴	H	Н	+	$\dagger$	+	+	Н	$\dashv$	$\dagger$	+	╁	Н	+	+			E	15.00	15.00		
1 i	S.	χ	Ů	Dig	$\dagger \dagger$	十			Н	1	十	op	$\dagger$	$\vdash$	┢	Н	7	$\top$	$\dagger$	t	Н		+	-	t	Н	+	H			<b>≨</b> [:	-	11	Ш	
입		CAI			$\Box$	$\top$	1	T	П	1	十	$\dagger$	1	T		П	1	十	Ť	T	H		1	+	t	Н	+	$\dagger \dagger$	+			5.00	5.00		
5		2	96	OCT NOV	П	7	T	T	П		1	T	T	T	Г	П	$\top$	1	†	T	П		7	$\top$	T	П	十	$\Box$	1	1	힌	7	1 1	Ш	1
PRODUCTION	E		AS OF	_	0.0	0.89	9 8	40.0	П	T	8	<u> </u>		40.0		П	7	T	T	T	П	$\dashv$	$\top$	┪	T	$\Box$	1	Ħ	108			2.50	2.50		
욊	, Fi	<u> </u>				<u></u>	0.00	4	Н	+	0.00 0.00	0.00 68.0		4	-	Н	$\dashv$	+	+	╀	Н	$\dashv$	4	+	╀	$\sqcup$	+	$\sqcup$			E E	3 7			
Δ,	3 3	ACCEP. PRIOR	ဥ္	96	0.00	0.00		00.0					00.0	00.00			-	1		1			1			H			00 0						
		<del></del>	1		T	7	7		П	7	7		1			Н	7	+	$\dagger$	T	Н	$\dashv$	十	+	T	Н	+	H	16	1	AME	_			
	₹ <u>"</u> ]	O		FY		1	1_	40.0	Ц	$\perp$	$\perp$		Ļ	40.0		Ц	$\perp$	1	┸	L	Ц	Ц	_	$\perp$	L	Ц		Ш		J	Z	5			
		A.		줐	3		2	3		ŀ			8					١											HEY	.	RE	Š	日		1
		PROGRAM QTY	İ	FY 97	1-1	7	0.0		П	$\top$	7	0		T	Ī	П	寸	$\top$	T		П	T	$\top$	$\top$	T	П	1	П			CIT	S	띮		
	國	PRC	ł			9	4	+	H	+	힑	عإد	╬	$\vdash$	-	H	+	+	+	$\vdash$	H	$\dashv$	+	+	+	Н	+	H	TOTAL MONTHLY		MANUFACTURER NAME	BURLINGTON,	TO BE SELECTED		
			$\Box$	FY	18	0.89	$\bot$	$oldsymbol{\perp}$	Ц			0.89	1_	$\perp$	L	Ц	4	1	$\bot$	1	Ш	$\perp$	1	$\bot$	<u> </u>	Ц	_	Ш	<u></u>	.	IAN	티표	띪		
	E E	លគ	<b>~</b> ;	>	A	<u>ا</u>	A A	بر ل					Į.																		2.	Ę.	잂		
	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	5	Σ	$\pm$	×	ΣĮ.	M N	2 X	H	$\dashv$	#	‡	Ë	Ê		Ħ	#	#	#	F	H	$\exists$	+	#	‡	Ħ	$\pm$		$\exists$		   P 1				
	E S	ŭ	·					2																							FAC	-	~		
ئــــا	₹ ]	FAC	ž	$\perp$	Ш	1	_L_		Ш		_L	丄	1	L	<u> </u>	Ш			$\perp$	L				丄	<u> </u>	Ш									

Particular of the control of the c		100		NOTION				١	TTOTITOT	7	- 1				고	F EBRUARY	1881		)-da	COMP (A	DD-CCMP (AR) 1092	~	
Fig. 20   Fig.	PPROF PROCU	RIATION, REMENT AM	MUNITION, ARMY/	TIVIT	1. A	MMUNIT	NOI			P- R(	1 ITE	M NOME!	NCLATU	RE PRAC M	267							[H	:3733
No.		ΩEI	OTY	BAL	ISCAL	YEAR	00			교	SCAL	YEAR (	]1			FIS	1	EAR 02					17
V   FY   FY   FY   FY   FY   FY   FY		<u>د</u> :			66	CALEND	AR YEAR	00				CALENDAR )	TEAR	01		-	ľ	CALENDAR	YEAR	02			T-
A	T	$\top$	FY FY FY 07 00	ŝ	_		RAN	Ř	JUL	43S	NOV		APR	S GN	AUG	ğ	DEC	FEB	ž X	MAY		AUG	
A. B. C. C. C. C. C. C. C. C. C. C. C. C. C.	<u>×</u>	A A	25 25	00.00	+	Ŧ	+	+	-	+			+	+	-	$\dagger$	+	+	1	1	+		
No.   D.   D.   D.   D.   D.   D.   D.		A		00.00		F				L	L		+	+	+	+	1	$ar{1}$	+	‡	+		ء اد
No. 0		A	0.00	00.00		H	H	H						-		-	1	F	$\perp$		-		0
ALL   D. 00   0.00   40.00   0.00	×			00.00												-					-		C
ALL			40.0 0.0	0.04 00			+			1.04.0	<u>8</u> .04.0	04.04	. 04.04	믱	0								0
ALL   B. 00   0.00	T			+	1	#	#	+	$\downarrow$	$\frac{1}{2}$	$\pm$		+	+		$\downarrow$	1	-		_	+		+
ALL   D. 000   0.00 0.00   0	f			00 00	+	+	+	+		+	$\frac{1}{2}$		+	+	+	+	+	$\bot$		+	_		
ALL   0.00   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00   0.00     ALL   0.00				00.00	+	-	1	+		$\pm$				<b> </b>		+	+	$\top$		#			0 0
MLL	F		0.00	00.00			F		L					-	-	+	1		$\perp$	+			ء اد
MILE			00.0	00.00		F	-	F	L		L			_	ļ		ļ	F		+	+	$\frac{1}{1}$	عاد
### PROBLECTED    PROBLECTED   PROBLECTED   PROBLEM   PR	F	ALL	40.0	10 40.0	Ė	L	F	F		40	A O	5	2	5	-	+	+	F	-	+	+	$\perp$	
AND PRODUCTION NAME   PRODUC	F					F		-	$\vdash$			-	*		-	-	1			+	-		-
FROEDCETTON RATES   NATIONAL	Ŧ																						H
FOOD CAPTON AND   FROM CATON AND   FROM CAPTON	Ŧ				#		$\ddagger$	+		$\pm$			+	+		$\frac{1}{1}$	#	-	$\frac{1}{2}$	$\downarrow$	-		-
NAMUPACTURER NAME   PRODUCTION RATES   SATISMA   PROCURE NAME	F			+	‡	#	+	+	$\downarrow$			-	+	+		+	+	1	1	$\downarrow$	-		+
PROCURENCE NAME   PRODUCTION RATES   PROCURENCE NAME   PROCURENCE NAME   PROCURE NAME   PRODUCTION   PROCURE NAME   PROPERTY   PROCURE NAME	П			H	$\parallel$						E		-		-	-	1	-	1	1	-		+
PRODUCTION NAME   PRODUCTION RATES   WANTED NAME   PRODUCTION   PROD					1			1															<u> </u>
PROBLECTION NAME   PRODUCTION RATES   WATER STATE STATE   WATER STATE STATE   WATER STATE STATE STATE STATE STATE STATE STATE STATE STATE ST	1			+	+	1	$\downarrow$	1			$\frac{1}{2}$		+	$\dashv$	+	+							
TOTAL MONTHLY   68.0   40.0				+	‡	#	‡	+			$oxed{1}$		+	+	+	+	#	+	+	$^{+}$			+
TOTAL MONTHLY   E8.0   40.0   15.0   6   10.0   15.0   6   10.0   15.0   6   10.0					_		+	-						-	1	+	+	+	$\frac{1}{2}$		-	+	+
ANUFACTURER NAME   PRODUCTION RATES   NAMES TO   1.0	П															$\Box$	H		-		$\perp$		+
FROBUCTURER NAME   PRODUCTION RATES   WATER   FROM   FRO				1	#	$\frac{1}{1}$	#	$\frac{1}{1}$					+										$\left  \cdot \right $
TOYAL MONTHLY   68.0   40.0	T			1	+	+	+	+		$\int$	$oldsymbol{I}$		+	+	+	+	$\downarrow$	1	_				
PRODUCTION RATES   SWATHS   FROM   1.04.04.04.04.04.04.04.04.04.04.04.04.04.	T			+	-	1	-	1		$\int_{-}^{-}$			+	-		1	-	1	+	$\perp$	-	-	+
PRODUCTION RATES   NAME   PRODUCTION RATES   PRODUCTION RATES   PRODUCTION   PROD	П					$\prod$	$\parallel$											H	$\vdash$			+	-
MANUFACTURER NAMEPRODUCTION EUCCATION AUSTRALIA 1.2.5PRODUCTION INTERPRETED 2.50REPRESENTATION AUSTRALIA 2.50PROCUREMENT AUSTRALIA 2.50LEAD TIME AUSTRALIA 1.2.5PROCUREMENT AUSTRALIA 1.2.5LEAD TIME AUSTRALIA 1.2.5PROCUREMENT AUSTRALIA 1.2.5PROCUREMENT AUSTRALIA 1.2.5PROCUREMENT AUSTRALIA 1.2.5LEAD TIME AUSTRALIA 1.2.5PROCUREMENT 2.5LEAD TIME AUSTRALIA 	7	TOTA		0 40.0	$\parallel$					1.04.0	4.04.0	4.04.04	04.04	04.03.	0		#						
LM, BURLINGTON, VT 2.50 5.00 15.00 6  TO BE SELECTED 2.50 5.00 15.00 6  TO BE SELECTED 2.50 5.00 15.00 6  REORDER 6 7 22 9	FAC	MANUF	ACTURER NAME	PRODUC	NOIT	RATES	HONTHS T		H	ROCUR	EMENT	LEAD 1	LIME	T #E	EPEKS T	O ADDE	MOON	SHEET	FOR A	\PPLIC	ABLE	PEM	ARKG
LM, BURLINGTON, VT         2.50         5.00         15.00         6         1 oct         1 oct         1 oct         1 oct         1 oct         1 oct         1 oct         1 oct         2 oct         29           TO BE SELECTED         2.50         5.00         15.00         6         7         22         29           REORDER         6         7         22         29	ω Θ	Z Z	OCATION	SUST	1-8-5	MAXIMUM	AFTER D-	١٨		ADMIN L	AFTER		A.										
10 BE SELECTED 2.50 5.00 15.00 0 INITIAL 0 / 22 29 REORDER 6 7 22 29		LM, BUR	-	2.50	00.5	15.00	وا	_ _		1 001	1 001	PROD.	<u>•</u>	ty									
6 7 22 29 OUANTITY IN	7	TO BE S	ELECTED	2.50	2.00	15.00	٥	F T	UTIAL,	٥	`	77	59										
								[E	CORDER	9	7	22	29			İ			OUAN	TTTTV	Z	HOIICZ	SAIDS

											DATE				
	BUDG	ET	BUDGET ITEM	JUS	JUSTIFICATION SHEET	AT	ION S	HEI	Z.L		[1.	FEBRUARY 1997	199,	_	
APPROPRIATION/BUDGET ACTIVITY	N/BUDGET	ACTIVIT	Y				P-1 ITEM NOMENCLATURE	NOMEN	CLATURE				i i		1
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	AMMUNITIO	N, ARMY,	/ACTIVITY 1		AMMUNITION		ROCKET HYI	ORA 70	ROCKET HYDRA 70 SIG PRAC M274	M274				(E37337)	7)
	FY	96	FY	76	Ϋ́Ч	86	Ą	66	FY	00	FΥ	01 02 FY	0.2		03
QUANTITY		46	-0-		-0-		133		7		1 2 2			,,,,,,	l
(Thousands)		,	•		·		707		132		771			122/132	
COST (In Millions) \$	\$	21.4	-0- \$		-0-		\$ 65.8	, v	\$ 67.3		\$ 63.9		ŵ	65.0/72.1	

#### DESCRIPTION:

cartridge containing a mixture of potassium perchlorate and aluminum powder. The M274 with the new MK66 Mod 3 rocket signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with cost, simple and reliable operation, day and night signature for scoring pilot proficiency, and non-hazardous dud The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) motor with electromagnetic radiation protection can be fired by all aircraft. It is a key rocket due to its low feature which enables usage on new multipurpose range complexes. This item is Code A, approved for service use. The M274 warhead is a smoke/flash vent holes; and an aluminum nose cap with firing pin, an M423 fuze safe and arming device; and a smoke/flash against area targets such as personnel, air defense systems, and materiel. This item will be procured through the CAWCF at a fixed standard price.

### JUSTIFICATION:

This is a training unique item; not used in combat. Each pilot must fire live rockets to acquire and maintain attack cheaper, and has less of an environmental impact than high explosive rockets. At the same time, it allows peacetime training with rockets compatible with the new sterile, instrumented training ranges equipped with advanced sensors. helicopter gunnery skills. FY 99 procurement supports all training schedules, initial qualification training for aviators, and builds a depot level in accordance with the Army's procurement goals. The M274 Signature Practice Rocket is the preferred training munition at all ranges. The M274 Signature Practice Rocket is safer to use, is

TYPE CLASSIFICATION DATE:

DD Form 2454, JUN 86

21 of 25 38 PAGE NO. P-1 SHOPPING LIST ITEM NO.

Page of Pages Exhibit P-40

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1340-01-379-7118 PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	T ACTIVITY ION, ARMY/AC	TIVITY 1	. AMMUNITION	NC	P-1 ROCK	ITEM NOM (ET HYDRA	P-1 ITEM NOMENCLATURE: ROCKET HYDRA 70 SIG PRAC M274	3 M274		DATE: NSN =	DATE: FEBRUARY 1997 NSN = 1340-01-379-7118 (E37337)	Y 1997 79-7118 337)
	FY 96 (QTY	Y	45561) F)	FY 97 (QTY	, A		) FY 98 (QTY	7		FY 99 (QTY		131687)
ELEMENT OF COST QM: EACH	ΥΤΏ	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.MK90 PROP GRAIN	45561 48751	184.27 172.00	8396 8385							131687 140906	219.17 198.45	28862 27963
SUBTOTAL			16781						'   			56825
PRODUCTION SUPPORT												
1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT 6.CAMCP GAIN/LOSS SUPPORT	HERING HERING NG TATION SUPPORT		520 233 1933 7143			··· · · · · · · · · · · · · · · ·						5807 142 653 409 2013
COST (NITUS	- Conciliance		9005									
SUBTUIAL												9024
**************************************	********	468.86	*	***	* * * * * * * * * * * * * * * * * * * *	****	**************************************	***	* * * * * * * * * * * * * * * * * *	**************************************	500.04	62849

38 P-1 ITEM NO.

PAGE NO. 22 of 25

r	Į
5	j
c	1
C	)
c	٦
-	-
Σ	Ε
C	j
ō	V
C	2
Č	Ĺ
Z	2
ī	j
ã	7

DATE: FEBRUARY 1997

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	DATE: FEBRUARY 1997	/4 1997	:
APPROPRIATION/BUDGET ACTIVITY	ľY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1340 - 01 - 379 - 7118	1-379-71	.18	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	Y/ACTIVITY 1.	AMMUNITI	NO	ROCKET	HYDRA 70 S	ROCKET HYDRA 70 SIG PRAC M274		! ! ! !	(E37337)	37)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	RACT DD PE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)	K (LAP)	 	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !			1 1 1 1 1 1	t t t	
FY 1996 LOCKHEED MARTIN	IN C/FP	0.	IOC	DEC 96	NOV 98	45561	184.27			
FY 1999 TBS	C/FP	n.	IOC	APR 99	FEB 01	131687	219.17			
2. MK90 PROP GRAIN										
FY 1996 HERCULES AEROSPACE	!	SS/CPAF	IOC	96 AON	APR 97	48751	172.00			
FY 1999 TBS	C/FP	ο.	IOC	DEC 98	SEP 99	140906	198.45			
REMARKS:		1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			:	1 1 - 1 1	1

TBS - TO Be Selected FY96 PROGRAM AWARDED AS A PERFORMANCE SPECIFICATION REQUIREMENT CONTRACT. LOCKHEED-MARTIN ORDNANCE SYSTEM WAS PURCHASED BY GENERAL DYNAMICS ORDNANCE SYSTEMS IN JAN 97.

EXHIBIT P-5A

P-1 ITEM NO. 38 P

38 PAGE NO. 23 of 25

-

Ē

4Rot.	E37337	<	;⊢ <sup>£</sup>		00.00	0.00	0.00	00.0	0.00	132		00.00	0.00	00.00	0.00	132															132					SQ.	
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E3.			AUG SEP	-			$\frac{1}{2}$	$\frac{1}{4}$	1						-	$\frac{1}{2}$	1							+			1								IN THOUSANDS	
ITS CON				JUN JUL		-	H	+	+	<u> </u>			-	+	+		$\dashv$	+	+	+	-				+			$\perp$	+	+	H					ŧ	
TREMEN			99	MA.				丰	1									1																		QUANTITY	
REOC DD-C			EAR	MAR APR	+		10	+	+	+	H		10	+		$\dashv$	$\dashv$	+	+	+	-	H	$\dashv$	+	+	H		-	+		10					QUAN	
		4R 9	CALENDAR YEAR	JAN FEB			08.08.0	$\downarrow$	1			1	0. 8		_				$\downarrow$				1	$\downarrow$													
1997		YEAR 99	9.	DEC JAN	+-	-	.08	$\dashv$	+	+	H	$\dashv$	128.08.	+	-		+	+	+	-	-		+	+	+			+	+	+	128.08.08.0						
RY 19		FISCAL		NOV			128	1	1				178	1				1	1	1			1								128						
DATE FEBRUARY		F	-	SEP OCT	-		H	+	+	+	H	1	$\dashv$	+	$\dashv$	1	+	+	+	+	ļ	Н	+	+	+		+	-	+	$\  \cdot \ $							
ATE FI	4			AUG		10		1		1		10		1			$\downarrow$	$^{\dagger}$													10	REMARKS					ES
	Σ		98	שני אטנ	+	15 15		$\dashv$	+	+	H	15 15	$\dashv$	+	$\dashv$	$\dashv$	+	+	+	╁	-		$\dashv$	+	-	H	$\dashv$	-	+		15 15	REI	_			_	PAGES
	FURE PRAC		) (	χχ	1	5 15		#	1			5 15			1			1	1	T	_			1				1		$\dagger \dagger$	12			29		29	of 25
	P-1 ITEM NOMENCLATURE ROCKET HYDRA 70 SIG PRA	86	YEAR	MAR APR	+	151	1	+	+	-	Н	15 1	+	+	+	$\dashv$	+	+	+	ŀ		H	+	+	-		$\dashv$	+	╁		15 15	TIME	TOTAL	AFTER	1	7	24
	NOMENO		CALENDAR	FEB MAR	1	15 15	П	7	1			15 15	1	1	7	1	1	1	1				1	1						П	15	EAD '		2 2	,	22	NO.
1	P-1 ITEM NON ROCKET HYDRA	L YE	5	DEC JAN	+	12	H	+	+	╁	1 - 1	12 1	$\dashv$	+	+	+	+	╁	+	╁		Н	+	+	-	Н	$\dashv$	+	+		12 15	NT		<u> </u>	<u>'</u>		PAGE NO.
P-21	-1 I ROCKE	'ISCA		OCT NOV		12 10	Ц	$\dashv$	-			12 10	$\dashv$	1	1	1	4	1	1	1		П	1	1	1	П	1	1			12 10	REME	LEADTI	7	-		
	Ы	<u> </u>		das		13		$\pm$				田		$\frac{1}{2}$	1		1	$\pm$					+	+	+	H	+	+	+	П	13	ROCU	PRIOR AFTER TOT	3	,	و	38
(EXHIBIT				JUL AUG	143.0	10	H	$\downarrow$	+	+		14 13	4	+	-	$\dashv$	4	-	-	-			$\perp$	$\bot$	L		1	Ŧ			14 13	٦			INITIAL	REORDER	NE NO
(EX			97	NO.	15	Ц		$\downarrow$	1		П	5			1		1	1						$\pm$							12				INI	OHA!	P-1 LINE NO.
DULE				APR KAY	14 15	Н	$\dashv$	+	+	+	H	14 15	$\dashv$	+	-	4	+	+	-	╀			+	+	-	H	4	+	-	$\square$	14 15	_ [2;	<u> </u>	T	 		
EDU	N.	97.	YEAR		6	H	$\downarrow$	1	1			ᅙ	1	1	1		1	1	1	L			1	$\dagger$						$\Box$	0	T SHINOH	FTER D	٥			
SCHE	Y 1. AMMUNITION	EAR	CALENDAR YEAR	JAN FEB MAR	158.08.07.05	H	$\dashv$	+	+	╁	H	158.08.07.05	+	+	+	+	+	+	+	╀		Н	+	+	+	H	+	+	$\vdash$	H	9 6	TES	MA	46.00	46.00		
	AMM	AL Y		DEC	58.08		1	#	1	ļ		8.8	1	1	1		1	1	1	Ţ			#	1	İ				ļ		80.8	N RA	NAW.	- 1	1 1	4	
CTI	1	FISC	96	OCT NOV	15 1	Н	$\dashv$	+	+			15	+	+	+	+	+	+	╀	+		H	+	+	╀	H	+	+	╀	H	15 15	CTIO	4	2.00 15.00	15.00		
8	TIVI		io Si		16		46.0	95	0.00	725	П	291	46.0		8	132	T	1	1	T			1				7	1			469 15 158.08.07.05.	PRODUCTION RATES   MONTHS IN	INTERIOR	2 00	2.00		
H.H.	/ITY	ACCEP.			0	0.00	0.00 46.0	0.00 0.00	0.00 0.00	3	П	26.0	0.00 46.0	0.00 0.00	0.00 0.00	0.00	1	T	T				$\uparrow$		1	П	İ	T	T		26.0		T	-	H		
	ARM			FY 00	1 1				3,5				٦		_	132		$\dagger$	T	T			$\dagger$	1	T		7	1	1	H	2	MAN	ואטוו	Ē,	1		
	TION,	AM O		FΥ	_		1	-	3	T	$  \cdot  $	T	1	1	8	1	1	t	T				$\dagger$	†	1	$  \cdot  $	7	$\dagger$	T		Jark	0.00	IOI	1	1 1		
	MUNI	PROGRAM OTY		FY 07	21			0.0						9																	TOTAL MONTHLY PRODUCTION	A CITTLE	OCAT	BURLINGTON,	ELECT		
	LION,	Δ.		FY	145	172	46.0	$\int$			Ц		46.0	1	$\int$	$\rfloor$	$\int$	$\int$		L			$\int$	$oxed{\Box}$		П	$\int$	$ \downarrow $	$oxed{L}$		PROD	IAMITE			1441		
	REME	លធា		>	A				V ·		Ц	Ā		Į.	į	¥.		$\perp$				Ш				Ц		1	L	Ц		2	$\dashv$	ž į	임		
PRODUCTION	PPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY		Σ.	$\dagger$	1 K	1 K	2 K	×	ر ج	Τ	$\prod$	1	7	$\dagger$	1	1	$\dagger$	T	1	T			$\dagger$	$\dagger$	1	П	1	1	T	$\parallel$		7	NO.	٦ ۲	3 6		
Ш	A	Ę.	8	$\perp$	Ľ	Ц		丄	T.	L	Ш			$\perp$			$\perp$					Ш				Ц				Ш							┛

	1 -	T			1.	00	<u>o</u> l (	o   0	0 0	<u> </u>	<u> </u>	Ţ	0	0	0	0		<u>ا</u>	Г	1	T	Г	1		<u> </u>		1		_	_	T	_	Т	Τ <u></u>	-				
Bet.	E37337		< <u></u> -'	고쓰	Į,	9,	00.00	000	00.00		?		0.00	0.00	0.00	00									L									00.0	-				SC
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 10%2	E			SEP	_	$\perp$	_	1	1	$\perp$	_	L	_		_		_	ot	L						L														QUANTITY IN THOUSANDS
NTROI 9.2				L AUG	+	+	+	_	1	_	_	_	_			L	$oldsymbol{\perp}$	L	_	L	_		_					$\perp$				$\perp$							HOU
S COI				JUL	$\perp$	+	4	$\bot$	4	$\perp$	$\downarrow$	<u> </u>	_			L	$oldsymbol{oldsymbol{oldsymbol{eta}}}$	$\perp$	_	L.	_	L			Ц			$\perp$	4		1	$\perp$	L						N
MENT				7 30%	+	+	+	+	+	4	$\bot$	ļ.,	_			_	L	<u> </u>	_	_	L						4	$\perp$	1	$\perp$	L	$\perp$	ot						Y.
UIRE			02	R HAY	$\dashv$	+	+	+	+	-	+	L	<u> </u>			L	↓_	-	L	_	L					_	1	4	$\perp$	$\perp$	$\perp$			Ц					TIT
REQ DD-	ļ	1	- E	MAR APR	+	$\dashv$	+	+	+	+	╁	_	_			L	┞	_	L		_					_	$\downarrow$	$\downarrow$	4	$\perp$	1	$\perp$	L	Ц					MAN
1			IR YEAR	FEB MA	+	+	+	+	+	╁	╁	-	-	-		-	$\vdash$	├	L	-		_	$\dashv$	-	$\dashv$	4	$\dashv$	+	+	4	4	$\perp$	_	Ц					
		YEAR 02	CALENDAR	JAN F	+	╁	+	+	+	╁	╁	-	$\vdash$			-	H	┝	_	$\vdash$	-	_	$\vdash$	-	4	-	+	+	+	+	$\vdash$	╂	_	Н					
997			۴	DEC	+	+	+	+	+	╁	╁		$\vdash$	-		-	$\vdash$	-			Н	-	$\dashv$		$\dashv$	$\dashv$	+	+	+	+	-	+	H	Н					
] ~	Į.	FISCAL		NOV D	+	+	╁	+	+	+	╁	H	Н	ᅱ	_	_	$\vdash$	-		_	H	-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+-	+	╀	-	Н	Н					-
FEBRUARY		FIS		t b	$\dagger$	╁	+	+	+	+	+	-	Н	$\dashv$		-	$\vdash$	_	Н		Н	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	+	+-	╀	+i		Н					
HE H			1	aas	$\forall$	+	$\dagger$	$\dagger$	$\dagger$	╁	+		H	_	-		$\vdash$			_	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	+	╁	╁	-	$\vdash$	$\dashv$	$\dashv$					1
E.				AUG	十	$\top$	T	$\dagger$	$\dagger$	$\dagger$	$\dagger$		$\vdash$	7			$\vdash$		Н		H	+	1	$\dashv$	+	+	+	+	+	╁	╀		$\dashv$	$\dashv$	2 K G				
DATE	M274			JUL	十	$\top$	1	†	1	$\dagger$	T			7	$\exists$				$\exists$	٦	$\dashv$		┪	1	+	$\dagger$	+	+	+	十	╁	Н	$\dashv$	$\dashv$	REMARKO				
	lυ		12	A Sign	$\top$	1	Ť	T	T	-	1				1		15	П		T		$\exists$	寸	1	$\dagger$	$\top$	+	+	†-	$\dagger$	╁		┪	15					
	ITEM NOMENCLATURE (ET HYDRA 70 SIG PRAC			MAY		T				12	1 1			7			15			┪		1	7	7	$\dagger$	+	$\dagger$	t	†	†	H	H	7	12		1	3		
	LAT			APR	$\perp$	I	I	I		7.	1 1						15					7	7	$\forall$	7	$\top$	$\uparrow$	1	$\dagger$	T		П		12	回	TOTAL	29	1	2
	SNC 70 S	12	CALENDAR YEAR	ğ	$\perp$	$\perp$	$\perp$	$\perp$	L	1,5	1 1						15											T	Τ			П	$\top$	12	TIME	T.	_	_ _	_
			ENDAR	JAN FEB	_	$\perp$	╧	$\perp$	$\perp$	1,5		_	$\perp$				15										Ι	T		T		П		15	LEAD	۽			
1_	P-1 ITEM NOM ROCKET HYDRA	ΧΕ/	ฮี		$\downarrow$	1	$\perp$	╀	1	7 1 5	1	4	4	$\perp$	_		15				$\perp$													15	LE	Cad		5	3
21)	ITE ET	.AL		V DEC	+	+	╀	1	╀	15	ו וי	4	4	4	4	4	5 15	4	_	4	4	4	$\perp$	$\downarrow$	$\perp$	1	$\perp$	$oldsymbol{\perp}$	L					15	INI			1	1
P-	P-1 ROCK	)SI,		OCT NOV	+	╁	+	╀	╀	0		4	$\dashv$	+	4	4	0 15	-	4	4	4	4	4	4	4	4	1	$\perp$	_					15	₹EM	AFT	-	,	
1	Ч	14		SEP	+	╁	╀	╀	╀	8	$\mathbb{H}$	$\dashv$	$\dashv$	+	+	$\dashv$	8	4	$\dashv$	4	$\dashv$	+	+	4	+	$\bot$	+	1	╀	Ц		4	4	080	COL	ADMIN LEADTIME PRIOR AFTER OCT OCT	و		0
(EXHIBIT				AUG	十	╁	╁	╁	╁	=	H	$\dashv$	$\dashv$	+	$\dashv$	$\dashv$	퍃	$\dashv$	+	+	+	+	+	+	+	+	+	╀	-	Н		$\dashv$	4	<u> </u>	PRC	A L		1 ~	
H				di di	十	╁	╁	$\vdash$	╁	╁╴	H	$\dashv$	+	+	+	$\dashv$	$\dashv$	$\dashv$	+	$\dashv$	+	+	+	╅	+	+	╀	╀	H	Н	$\dashv$	$\perp$	4	4				TAI	
EX			8	ND F	十	T	十	十	T	$\vdash$	H	+	+	+	$\dagger$	1	+	$\dashv$	$\dashv$	+	$\dashv$	+	+	+	+	+	╁	╁	╁	Н	-	+	+	$\dashv$				REORDER	
				ž	†	1	T	1	T	T	Н	$\dashv$	+	†	+	1	$\dashv$	+	$\forall$	+	+	$\dagger$	+	+	+	+	+	╁	╁	Н	$\dashv$	$\dashv$	+	$\dashv$	Ц			<u>α</u>	╛
SCHEDULE				APR	T	Γ	T	Τ	T	Τ	П	1	1	1	†	7	7	7	$\dagger$	$\forall$	$\top$	†	+	十	+	$\dagger$	$\dagger$	十	$\vdash$	Н	$\dashv$	$\dashv$	+	+	23	-DAY	Τ	П	٦
Ä	z	8	YEAR	ğ					Γ			1		1	1	7	7	1	7	1	1	†	T	T	$\dagger$	$\dagger$	T	T		Н	$\dashv$	$\dashv$	$\dagger$	-	RATES MONTHS TO	AST C		0	
18	II.	ا پر	CALENDAR YEAR	JAN FEB MAR								$\prod$							1	1	T	Ť	T	1	$\top$	T	T	T	Τ	П		$\dashv$	1		S	¥ 9			-
	E	YEA		_	$\perp$	L		L		L	Ц												T		I		T		Г	П			1		4TE	MAXIMUM	46.00	46.00	
B	1	7	r	띪	┸		L		L	Ц	$\sqcup$	1	┙	$\perp$	1									$\perp$		$oxed{L}$									3	\$ }	1	i i	⇃
딥	/ 1. AMMUNITION		앎	NOV.	$oldsymbol{\perp}$	L	L	-	<u> </u>		$\sqcup$	1	4	4	$\downarrow$	4	4	4	4	4	$\perp$	1	1	┵	1	$\downarrow$	$\perp$	L	L	Ц					IOI	1-8-5	15.00	15.00	
	<b>≧</b>			8	+			L		7	4	4	1	١,	<u>.</u>	↲	긲	4	4	4	4	1	4	1	1	$\perp$	$\perp$	<u> </u>	L	Ц	_	_	4			T -	11	0 1	-
PRODUCTION	Ĭ.	A S	1 00 T	9	0.00	0.00	0.00	0.00 0.00	0.00 00.00	132			0.00	00.0	0.00 0.00		132	1	1		İ		Ì		1	1		l			1	İ		132	PRODUCTION	UST.	2.00	2.00	
ᇤ	<b>S</b> [ ]	ACCEP.	, ti		45	172	46.0	8	8	0.00		1		0.0	3		0.0	1	T	1		1	十		T	1	T	T	Г	П		$\top$	1	363		Ε.Α.	+-	$\vdash$	$\dashv$
	<u>}</u>		F	8	╫	-	4	9	0		+	4	7	취	4		_	+	+	+	+	+	+	+	1	+	$\downarrow$	┞	ļ_	Ц	4	4	4	m	¥				
		QTY	ļ	X   0	1					132		ı	ı		١		132	ı	1		1	ı			-				ĺ					ł	NAME		15		
		¥		ž g	<u> </u>		Г		00.0			1	T	T	18		1	7	1	T	1	T	1	1	T	十	T	T	Г	H		$\forall$			ŒR		•	Д	
		PROGRAM	-	_	+-			00.0	٥	H	+	$\dagger$	+	15	00.0	7	+	$\dagger$	$\dagger$	十	+	$\dagger$	$\dagger$	╁	+	+	╁	十	H	Н	$\dashv$	$\dashv$		PRODUCTION	Į.	& LOCATION	BURLINGTON,	SCI	i
		PRC			, 1	2	0	o.	Н	Н	+	4	1	عاد	4	4	+	+	+	+	+	+	+	+	╀	╀	╀-	$oxed{\bot}$	<u> </u>	Ц	-	4	_	DOC	FAC		RLI	SELI	
			į	م ام	145	172	46.0	Ш	Ц	Ц	$\perp$	1		2	$\downarrow$	1	$\perp$	$\perp$	1	$\downarrow$	1	$\downarrow$	$\perp$	1	$\perp$	$\perp$	L	$\perp$		Ц	$\perp$	$\perp$		PRÔ	MANUFACTURER	ع ا <u>د</u>		TO BE SELECTED	
	EME A	លការ	×>		A	A	A	A	A	A			1:	1:	<b>]</b> :	AL.	ALL																		∑	M	Ĭ,	잂	
	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	D:	Σ	+	×	K 7	K 7	K 7	K	×	#	‡	#	#	‡	7	7	$\mp$	‡	#	#	‡	#	+	+	+	$\vdash$	F		$\boxminus$	4	$\pm$	$\exists$				П		1
	E SE	FAC	;		_	_	7			~																									FAC	일-	7	~	
<u></u>	₹	14	<u>z_</u>			Ш	Ш	$\Box$	Ш			$\perp$					$\perp$	L	$\perp$	1	$\perp$	1		1	1.	1													_

P-1 LINE NO. 38 PAGE NO. 25 OF 25 PAGES

										DATE			
Щ	BUDGET ITEM	ITEM	JUS	JUSTIFICATION SHEET	AT	LON	SHE	H H		Ţ	FFRRIIARV 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIVI	TY				P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, ARM	Y/ACTIVITY 1		AMMUNITION		DEMOLITI	INDM NO	DEMOLITION MUNITIONS ALL TYPES	TYPES			(E	(E55400)
	FY 96	6 FY	97	FΥ	86	FŸ	66	FY	G	FY	10	01 02 FY	03
QUANTITY	-0-	-0-		-0-		-0-		-0-		-0-		- () - / - () -	1
COST (In Millions) \$	\$ 30.4	\$ 23.2		\$ 18.8	w	17.9		\$ 45.6	·v>	23.4		\$ 15.9/16.1	1.91/

DESCRIPTION:

This budget line includes Demolition Munitions ALL TYPES.

	AMMU	AMMUNITION		COST ANALYSIS		Jollars ir	(Dollars in Thousands)	(spu				
APPROPRIATION AND P-1 LINE ITEM PROCUREMENT AMMUN AMMUNITION DEMOLITION MUNITIONS ALL TY	NT AMMU S ALL T	NITION YPES (E	ITION, ARMY/ACTIVITY PES (£55400)	ACTIVIT	1-1		DATE	t FEBRUARY 1997	9.7			
	ry 96	1416		rr 97	14141		rr 98	(917;		1199	(917:	
SSN / ITEM:	QTY	UNIT	TOTAL	QTY	TSOO	TOTAL	_	COST	TOTAL	QTY	COST	101AL
E50601 CHG DEMO BLK COMP C-4 1-1/4 LB M112	619	18.26	11304	352	26.93	9470	353	37.60	13269	353	38.39	13555
E51300 CHG DEMO BLK CRATERING 40 LB	16	379.76	5939	0	00.0	0	0	0.00	0	0	00.0	0
E53200 CHG DEMO SHAPED M3 40 LB	10	242.85	2546	0	0.00	0	0	0.00	0	0	00.0	0
E54100 CORD DETONATING TYPE I	4260	.20	852	0	0.00	0	15264	.11	1652	9481		1047
E56801 IGNITER FUSE BLASTING TIME M60	342	3.53	1205	0	0.00	0	0	0.00	0	0	00.00	0
E60201 CUTTER CTG ACTUATED 2 SEC DELAY M21	0	0.00	0	0	00.00	0	10	96.90	674	0	0.00	0
E81301 HOLDER FOR BLASTING CAP AND SHOCK TUBE XM9	1637	.43	713	0	0.00	0	0	0.00	0	0	00.0	0
E81302 CAP BLASTING NON-ELEC W/30 FT SHOCK TUBE XM	912	3.40	3102	0	0.00	0	0	0.00	0	515	3.63	1869
E81303 CAP BLASTING NON-ELEC W/500 FT SHOCK TUBE X	54	18.20	974	115	14.89	1712	0	0.00	0	06	15.99	1439
101AL P.1 LINE ITEM												
DD form 2448, AUG 89				P-1 ITEM NO.	A 10. 39	PAGE NO.	2	0f 28				Exhibit P.24

: .

•

	AMMUN	T10		ANALYSIS	SIS	ollars in	(Dollars in Thousands)	nds)				
APPROPRIATION AND P-1 LINE HEAT PROCUREMENT AMMUNITION AMMUNITION AND TYPES	INT AMMUNI	_ ~	ш;	ARMY/ACTIVITY 55400)	. <del>.</del>		DATE 'F	FEBRUARY	1997			
	17.96	T I		FY 97	19171	-	ry 98	1977:		FY 99	_	-
SSN / ITEM:	qty	COST	TOTAL	QTY	COST	TOTAL	άτγ	COST	TOTAL	QTY	COST	101AL
E81304 CAP BLASTING NON-ELEC W/1000 FT SHOCK TUBE X	. 15	33.15	498	16	31.44	503	0	00.0	0	0	00.0	0
E81305 CAP BLASTING NON-ELEC DELAY XM14	175	8.55	1496	158	9.76	1542	166	9.87	1639	0	0.00	0
E81306 CAP BLASTING NON-ELEC DELAY W/30 FT TUBE X		7.91	285	0	00.0	0	0	00.0	0	0	00.0	0
E81307 IGNITER TIME FUZE AND SHOCK TUBE XM80	588	3.41	981	277	3.75	1039	414	3.35	1387	0	00.0	0
E81308 CAP BLASTING INERT NON-ELEC W/500 FT SHOCK T	1536	17.11	26	o	00.0	0	0	0.00	0	0	0.00	0
E81309 CAP BLASTING INERT NON-ELECT W/30 FT SHOCK T	71	4.79	340	0	0.00		0	00.0	0	0	00.00	0 .
E81310 CAP BLASTING INERT NON-ELEC DELAY	10	9.30	93	11	9.27	102	11	9.27	102	0	0.00	0
E81311 CAP BLASTING NON-ELEC W/70 FT SHOCK TU	4	14.92	57	7	7.00	49	2	8.60	43	0	0.00	0
101AL P.1 LINE ITEM			30411			14417			18766			17910
DD Form 2448, AUG 89				P-1 11EM HO.	M NO. 39	PAGE NO.	10. 3	of 28				Exhibit P.24

· :

SHERT
EM JUSTIFICATION
ITEM
BUDGET

	1997
DATE	FEBRUARY

APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITE	M NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TUNITION,	ARMY / E	CTIVITY 1.	AMMUN	MITION		CHG DEMO	BLK CC	CHG DEMO BLK COMP C-4 1-1/4 I.B M112	1/4 1.B	M112		)	(E50601)
	FY	96	FY	76	FY	96	FY	66	λd	00	FV	10	01 02 FV	~ 0
QUANTITY		010								3		10		
(Thousands)		670	700		353	יי	353		827	•	255		-0-	-0-/-0-
COST														
/illions)	ѷ	11.3	\$ 9.5		\$ 13.3	3	\$ 13.6		\$ 32.4		\$ 10.2		-0-/-0-\$	-0-/-

#### DESCRIPTION:

breaching or cratering. This item is Code A, approved for service use. This item will be procured through the CAWCF individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand The block demolition charge consists of 1-1/4 pounds of composition C4 plastic explosive packed in a mylar-film bag. Pressure sentitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, at a fixed standard price.

# JUSTIFICATION:

Composition C4 is the primary demolition explosive used by the U.S. Army. This is a training standard item used in both training and combat. FY 98/99 procurement supports annual peacetime training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1960.

Page of Pages Exhibit P-40

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1375-01-389-3854 (E50601)

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

P-1 ITEM NOMENCLATURE: CHG DEMO BLK COMP C-4 1-1/4 LB M112

	FY 96 (QTY		619150)	FY 97 (QTY		351614) F	FY 98 (QTY		352880)	FY 99 (QT'Y		353090)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	ΔĪĀ	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL.
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.COMP C-4 CLASS 3 (LB)	619150 786321	3.62	2242	351614	3.31	1162	352880	3.95	1394	353090	4.03	1424
SUBTOTAL			8880			8023			11451			11698
PRODUCTION SUPPORT	PORT   SUGINE SING SING SING SING SING SING SING SING	18.26		***	26.93	335 11 87 76 938 1447 1447	** ** ** ** ** ** ** ** ** ** ** ** **	***************************************	1170 132 132 405 1818 13269	335 1170 132 87 76 938 938 1447 1447 1818 1818 26.93 9470 37.60 13269 38.39	<del>   </del>	1195 29 135 84 414 11857 13555
			-									

P-1 ITEM NO. 39 PAGE NO.

5 of 28

	1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE:	DATE: FEBRUARY 1997	۲۲ 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1375-01-389-3854	1-389-38	354	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CHG DE	MO BLK COMP	CHG DEMO BLK COMP C-4 1-1/4 LB M112	3 M112		(E50601)	01)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP)		; 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					: ! ! :
FY 1996 MARTIN MARIETTA	SS/CPAF	IOC	36 NOC	FEB 98	619150	3.62			
FY 1997 MARTIN MARIETTA MILAN TN	SS/CPAF	IOC	DEC 96	OCT 97	351614	3.31	YES	ON	
FY 1998 MARTIN MARIETTA MILAN TN	SS/CPAF	IOC	DEC 97	OCT 98	352880	3.95	YES	ON	
FY 1999 MARTIN MARIETTA MILAN, TN	SS/CPAF	IOC	DEC 98	OCT 99	353090	4.03			
REMARKS:			 				 	i 3 1 3 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

PAGE NO. P-1 ITEM NO. 39

EXHIBIT P-5A

6 of 28

PCN PO2QM1DOD4Z

	1	} ! ! ! ! !	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	                 	DATE	DATE: FEBRUARY 1997	3Y 1997	1 2 2 1 1
APPROPRIATION/BUDGET ACTIVITY	TY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1375-(	1375-01-389-3854	354	٠
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	Y/ACTIVIT	TY 1. AMMUNI	TION	CHG DE	MO BLK COMP	CHG DEMO BLK COMP C-4 1-1/4 LB M112	M112		(E50601)	01)
LINE ITEM/ FISCAL YEAR CONTRACTOR		CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	1F YES WHEN AVAIL
2. COMP C-4 CLASS 3 (LB)		1 1 1 1 1 1 1	1 3 4 1 1 1 1 1 1 1	! ! ! ! ! !			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i i I I	: : : : : : :
FY 1996 HOLSTON DEFEN	SE CORP	SS/CPFF	IOC	DEC 95	JUL 96	786321	8.44			
FY 1997 HOLSTON DEFEN	SE CORP	SS/CPFF	IOC	DEC 96	JUL 97	446550	15.36	YES	ON	
FY 1998 HOLSTON DEFEN	SE CORP	SS/CPFF	IOC	DEC 97	JUL 98	448158	22.44	YES	ON	
FY 1999 HOLSTON DEFENSE CORP KINGSPORT, TN	SE CORP	SS/CPFF	IOC	DEC 98	JUL 99	448425	22.91			
REMARKS:	1 1 5 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		! ! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

P-1 ITEM NO. 39

PAGE NO. 7 of 28

EXHIBIT P-5A

	01		استِی	шĸ	3	00.00	00.0	00.00	0.35		0.00	00.00	0.00		00		0.00	00.0	35		T			Ī						T	0.35	_	_				— 7
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E50601		Ť	SEP	1			2			0	0	0			2 5	0	0	0	$\mid \cdot \mid$	$\dashv$	+		+		+	+	+	$\dashv$	+	0					IN MILLIONS	
TROL				AUG				$\bot$						$\perp$		Ţ								L												7711	
S CON				30L	4	-	+	$\perp$	+	-	$\sqcup$			_	$\bot$	-	L	_			4	_	$\perp$	_		-			_	1	Ш					EN H	
MENT (AR			ا	MAY JUN	+	+	+	+	+	-	$\vdash$			+	+	╀	$\vdash$	ļ		$\dashv$	+	-	+	-	H	-	+-	H	+	+	H						
OUIRE-COME			66	APR M	+	+	$^{+}$	+	+	╁	Н		$\vdash$	+	+	╁	$\vdash$	_			$\dashv$	+	+	╁	H	$\dashv$	+	H	+	+	H					QUANTITY	
RE DO	-		ă			$\dagger$	$\top$	$\dagger$	T	$\vdash$				1	T	$\dagger$	+	H			$\dagger$	$\dagger$	$\dagger$	$\vdash$		+	+	H	+	$\dagger$	Н					ŎſĬ	
		E .	YY CALENDAR YEAR	JAN FEB MAR																																	
<i>r</i>		YEAR	CALE	_	_	+	$\downarrow$	0	•	L	Ш			_	_	_	$oxed{\bot}$	90.08			4	$\downarrow$	1	_		_	_			_	9.08						i
1997		CAL		NOV DEC	+	+	+	00		╁	₩			-	+	╁	$\vdash$	.09.09			+	+	+-	-	$\vdash$	+	+	$\vdash$	+	$\vdash$	.09.09						
JARY		FISCAL		z L	$\forall$	+	+	e	>	╁	H			+	╁	t	$\vdash$	0.60	Н		$\dashv$	+	+		$\vdash$	+	+	H	+	+	00						
EBRI	112			SEP				İ										Ė				T			$\Box$		$\dagger$	Ħ	$\dagger$	t	H	,,,					
DATE	LB M112			AUG		1	80	$\perp$			$\coprod$	Ц	$\prod$	$\prod$	$oldsymbol{\perp}$	90.					I	$oxed{\bot}$	$oxed{\Box}$			$\perp$	I				.09.08	REMARKS					
ď	4			N JUE	4	- 2	0.00	+	$\perp$	L	$\sqcup$	$\sqcup$		+	+	00.00	_		Н	$\dashv$	4	$\downarrow$	$\perp$	_	$\sqcup$	$\bot$	_	$\coprod$	_	_	9.09	RE					
	RE 1-1	ļ	ă	MAY JUN	+;			+	+	-	Н	Н	$\dashv$	+	7.0			$\vdash$	H	$\dashv$	+	+	+	-	+	-	+	H	-	$\vdash$	16.09	Γ		Š			į
	ATU C-4			APA	- 1	5 5	. 09. 09	$\dagger$	†	<del> -</del>	H	Н	$\dashv$	$\dagger$	2	09.09	-		Н	7	+	+	$\dagger$		$\dashv$	╁		$\vdash$	+		.18.1	ĮΞ	1 2		13	13	1
	-1 ITEM NOMENCLATURE CHG DEMO BLK COMP C-4 1-1/4	9	z ž	$\overline{}$	1	60.0	5	I							e	8													1		.18	LEAD TIME	-	AFŢ			ľ
1	NOME LK O	AR	98	83 Z	- 13		5		_		Ш		4	$\perp$	00	60					1	$\perp$	$\perp$				L		Ţ.		17.18.18	AD		PROD.	10	10	
1_	EM P	FISCAL YEAR	3	DEC JAN	- 1	.09.09	5	20.00	$\vdash$	$\vdash$	H		$\dashv$	+	00	-	.09.08	$\vdash$	H	$\dashv$	+	+	+	$\vdash$	_		+	$\vdash \vdash$	+	-		Ξ Ε	्रा जा		_		
-21	IT E	CAL		NOV D	- 1	5	5	60.60	╁	$\vdash$	H	$\exists$	$\dashv$	+	00	-	60	H	Н	$\dashv$	+	╁	+	$\vdash$		+	╁	H	+		.18.18.18	MER	ADTIM	<b>1</b>	3	3	١
<u> </u>	P-1 CH3	FI	_	ğ	3	18.09.09	5	1							2		.09.09					I									.18	TIRE	2 2	55	9	9	í
(EXHIBIT				SEP			+	ot	_	L	$\sqcup$		_	1	1,0		L		Ц	$\dashv$	$\perp$	$\bot$				$\perp$			$\bot$		18.18	PRO	ADMIN LEADTIME	18			l
			İ	JUL AUG	- 15	81.81	╁	+	$\vdash$	╄	Н		$\dashv$	+	1 2		_	H	$\vdash$	+	+	+	╀	H	-	+	╀	H	-	-	18.1				INITIAL	REORDER	١
EX			97	7	1	4	$\dagger$	$\dagger$	t	T	Н		7	$\dagger$	1 2 1 8			Н	Н	$\dagger$	$\dagger$	+	+	$\vdash$	1	$\dagger$	+	H	+	╁					INI	REO	
1				XA.	,	7		I			8				18																18.18.18	_	<u>}</u>				ľ
SCHEDULE			_	A APR		4 · 14	+	$\downarrow$	L	L	4.04	$\dashv$	4	$\perp$	18		_	_		4	4	╀	╀		4	4	$\downarrow$	$\sqcup$				MS TO	H MAX R D-DAY				١
日日	NOI	0,	CALENDAR YEAR	JAN FEB HAR	1	14.14	╀	╁	├	$\vdash$	.04.04	$\dashv$	+	+	18	-	┝	Н	Н	+	+	+	+	_	$\dashv$	+	+	$\vdash$	+	H	18.18.18	MONT	HINIMUM 1-8-5 MAXIMUM AFTER	٥	1	$\sqcup$	١
SCI	1. AMMUNITION	EAR	W.END	JAN		#	+	十	$\vdash$	┢	8	7	$\dashv$	+	ļ <u>a</u>		$\vdash$	Н		+	+	+	+	-	+	╁	╁	$\vdash$	+	-	18.1	TES	KIMUM	0.18			
Z	AMM	.⊒	Ť			İ	I	上					1		ľ																	RA	MA	2	$\bot$	$\perp$	
II	r-i	SCA	96	OCT NOV DEC	4	1	$\downarrow$	╀		_	Ц	$\dashv$	$\dashv$	1	$\perp$	Ļ	L	Ц			4	_	$\perp$	L	$\perp$	1					Ц	TIO	1-8-5	0.05			
PRODUCTION	ξĹ	[±i	1_	•	+:	2 5	2 2		25		6	힑	힑	+	15	22	35	35	35	+	+	+	╀	$\vdash$	$\dashv$	+	+	$\vdash$	+	$\vdash$	6	DOC	HOM	0.03	$\dagger$	$\forall$	١
NS I	TIV	3 2			9 (	61.7	0.00 0.02	0.35	0.35	L	0.19	0.00	0:0	4	2, 32	0.62	0.35	0.35	0.00 0.35	4	_	$\perp$	1		$\perp$	1	$\perp$	Ц	_	_	3.99	PRO	HINIM	0			
<u>~</u>	VIT.	ACCEP.	£ 2 .	1 2	96			0.00	0.00		0.00	0.0	9		00.0	0.00	0.00	00.0	0.00												0.00	ı	 2]				
	CTI			1	99	T	T	T	0.35						T				0.35		T	T			T		T	П					NAME				
	ON,	5	Σ E	$\vdash$	86	+	+	35	فإ	$\vdash$	H	$\dashv$	+	+	+	$\vdash$	H	35.0	اه	$\dashv$	+	$\dagger$	+	H	$\dashv$	+	+	H	+	-							
	NITI	֓֞֞֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֓֓֡֓֡֓֡	FRUGRAM QII		+-	+	25		-	$\vdash$	Н	$\dashv$	릵	+	+	<del> </del>	0.35	٥	H	$\dashv$	+	+	+	$\vdash$	$\dashv$	+	+	H	-	$\vdash$	TOTAL MONTHLY PRODUCTION	F	MANOFACTURER & LOCATION				
	N/BI	t C	7 5		96P 97	2 5	ع	<del>-</del>	$\vdash$		.19	힞	0.0	+	100	25	عا	Н	H	+	+	+	+	-	$\dashv$	+	+	H	+	$\vdash$	Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan	1	ŽŽ	AP			
	IOIL N IN			FY	7	2 5	-	+			<u> </u>	0.00	$\dashv$	+	40	40	1	H	$oxed{oxed}$	+	+	$\downarrow$	+	Н		+	$\perp$	H	$\bot$	L	5 <u>%</u>	14.4.4.1	MAIN &	MILAN AAP			
	RIA		비ㄸ	>		<			A		Α̈́	M AF	MAF		AT.T.	ALL	ALL	ALL	ALL							$\perp$		Ш				-		뵈	- -	$\dashv$	
	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY		Σ.	Ŧ	7	ΕΣ	ΞΣ	<b>= =</b>	Σ		Σ	Σ	Σ	f	T	<u> </u>	$\vdash$	Н		$\dashv$	f	$\dagger$	†	П		f	†	H	+			Ş	NO.				
	APE	<u> </u>	NO.			1-	1-	1-																		$\perp$							4Z		<u>_</u>		

P-1 LINE NO. 39 PAGE NO. 8 OF 28 PAGES

2

PRODUCTION SCHEDULE (EXHIBIT P-21)    DATE   REQUIREMENTS CONTROL SYMBOL   PEBRUARY 1997     PD-COMP (AR) 1092	INITY 1. AMMUNITION CHG DEMO BLK COMP C-4 1-1/	Accep. Bat FISCAL YEAR FISCAL YEAR FISCAL YEAR FISCAL YEAR 00 01 02		2.13		9.35 0.00 0.35.09.09.08 0.00 0.00 0.00 0.00 0.00 0.00	00.19 0.00	0.00 0.00		2.32 0.00	0.00		0.35 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						PRODUCTION RATES worms TA PROCUREMENT LEAD TIME REPORT REP	0.03 0.05 0.18 0	REORDER 6 3 10 13
	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITIO	FISCAL )	M R 100 100 100 100 100 100 100 100 100 1	2.13	M A 0.35 0.35	0.35.09.09.09	0.19 0.19	M AF 0.00 0.00	2000	ALT. 2.32 2.32 0.00	0.62 0.62	0.35	00 00					PRODUCTION 13.64   0.35.09.09.09.08	FAC MANUFACTURER NAME PRODUCTION RATES NO. ELOCATION NAME HINTHOM 1-8-5 MAXIMOM NO.	MILAN AAP	

		1									DATE				
-	BUDGET ITEM	E	ITEM	JUS	JUSTIFICATION	CAT	NOI	SHEET	田田		H.	FEBRUARY 1997	1997		
APPROPRIATION/BUDGET ACTIVITY	/BUDGET ACT	IVITY					P-1	P-1 ITEM NOMENCLATURE	VCLATURE						Ī
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION,	ARMY /.	ACTIVITY 1		AMMUNITION		CHG D	EMO BLK C	CHG DEMO BLK CRATERING 40 LB	40 LB				(E51300)	_
	FY	96	FY	6	ЬĀ	86	FY	66	FY	00	FY	01	01 02 FY		0.3
QUANTITY		16	-0-		-	-0-	<u>'</u>	-0-	-0 -1		-0-		,	- 0 - / - 0 -	
(Thousands)								·····	<b>&gt;</b>		·			;	
COST (In Millions)		5.9	-0 -		-0- \$	)-	w	-0-	-0- \$	, v	-0-		٠٠	-0-/-0-	<u> </u>

### DESCRIPTION:

charge is packed one per box. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price. booster of approximately 10 pounds in the center portions next to the priming tunnels. The item is primarily used for tactical explosive earthmoving requirements (road cratering) by the individual soldier (Engineer Corps). The The 40 lb cratering charge is a cylindrical metal container with approximately 30 pounds of explosive and a TNT

# JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1958

DD Form 2454, JUN 86

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CHG DEMO BLK CRATERING 40 LB

DATE: FEBRUARY 1997 NSN = 1375-01-378-9669 (E51300)

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

	FY 96 (QTY	¥	15638) F	FY 97 (QTY		) FY	98 (QTY		) FY	99 (QTY		_
ELEMENT OF COST QM: EACH	ΔĪĀ	UNIT	TOTAL	YTQ	UNIT	TOTAL	QTY	UNIT	TOTAL	УŢŎ	UNIT	TOTAL
HARDWARE												
LOAD, AND PA	15638	260.21	4069									
Z.*COMP B TYPE 1 GRADE A (LB) 3.ALUMINUM POWDER	453502	1.65	749					-	<b></b>			
TYPE III	125104	0.85	107			<b></b> -						
TYFE 1, D-2 (LB) D-2 (LB	187656	1.50	282									
COMP 1 (LE	1976	6.62	53			-•						
SUBTOTAL			5475									
PRODUCTION SUPPORT			!   									
1.PRODUCTION ENGINERING 2.OUALITY ASSURANCE	JEER ING		170						·			
3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPORT	ING TATION SUPPORT		232			<del></del>						
SUBTOTAL	SURCHARGE		1495									
NONRECURRING			_!						<u> </u>			
N	FURNISHED MATERIAL	4L	-1031									
SUBTOTAL			-1031						   			
**************************************	*********	379.76	5939! 5939!	****	***	***	****	***	***	* * * * * * *	**	* * * *

PAGE NO. 11 of 28 39 P-1 ITEM NO.

EXHIBIT P-5

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	(Y 1997	: : : : : : : : : : : : : : : : : : : :
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1375 - 01 - 378 - 9669	01-378-96	699	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	TY 1. AMMUNIT	rion	CHG DE	MO BLK CRAT	CHG DEMO BLK CRATERING 40 LB	1 1 1 1 1 1 1 1 1	 	(E51300)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1996 MASON-HANGER SILAS MIDDLETON, IA	SS/CPFF	IOC	96 TAL	JUL 97	15638	260.21	 	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2. *COMP B TYPE I GRADE A (LB) FY 1996 STOCK ISSUE	N/A	N/A	N/A	N/A	453502				
3. ALUMINUM POWDER TYPE III CLASS 7, GR F (LB) FY 1996 ALCAN-TOYO AMER C/FP NAPERVILLE, IL	7, GR F (LB) C/FP	IOC	DEC 95	JUL 96	125104	0.85			
4. *TNT TYPE I, FLAKE (LB) FY 1996 STOCK ISSUE	N/A	N/A	N/A	N/A	187656				
5. COMP D-2 (LB) FY 1996 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	DEC 95	JUL 96	31276	6.89			
REMARKS:							 	1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

P-1 ITEM NO. 39 PAGE NO. 12 of 28

EXHIBIT P-5A

	ı
2	ı
4	ŀ
Д	ï
0	1
Ω	١
$\leftarrow$	ı
Σ	ţ
Ö	ł
Ñ	1
0	ı
Ā	1
	ŧ
$\mathbf{z}$	i
Ü	1
ď,	1

		] ] ] } # 4 3 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	۲۲ 1997	 
APPROPRIATION/BUDGET ACTIVITY	SUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1375-01-378-9669	01-378-96	699	
PROCUREMENT AMA	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ry 1. AMMUNI	TION	CHG DE	MO BLK CRAT	CHG DEMO BLK CRATERING 40 LB	. 1	1	(E51300)	(0)
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
6. COMP A-5, CLASS 1 (LB) FY 1996 HOLSTON DEFE	COMP A-5, CLASS 1 (LB) FY 1996 HOLSTON DEFENSE CORP KINGSPORT, TN	SS/CPFF	IOC	DEC 95	JUL 96	9.16.1	6.62			
REMARKS:		                 			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 1 1 1	: 1 1 2 2 3

P-1 ITEM NO. 39 PAGE NO. 13 of 28

EXHIBIT P-5A

DATE FEBRUARY 1997 DD-CCMP (AR) 1092 LR	FISCAL YEAR  99  A  A  T  T  T  T  T  T  T  T  T  T  T	UG SEP OCT NOV DEC JAN FEB HAR APR MAY JUN JUL AUG SEP	0.00	0.00	01.01.0					01.01.0	QUANTITY IN THOUSANDS
40	L YEAR FISCAL YEAR 97 98 carriers yrs 97 calregar year	77 98 99 96 96 9.00	K A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	20.6	ALL 16.0 0.00 16.0 0.00 16.0 0.00 01.01.01.01.01.01.01.01.01.01.01.01.01.0					PROBUCATION 20.6 16.0 10.01.01.01.01.01.01.01.01.01.01.01.01.0	FAC MANUFACTURER NAME PRODUCTION RATES FROM NAME NO. & LOCATION AAP, IA 0.70 1.10 2.80 0 INITIAL 6 3 12 15 REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  RECORDER 6 3 9 12

P-1 LINE NO. 39 PAGE NO. 14 OF 28 PAGES

Z,

											DATE			
	BUDG	TH	BUDGET ITEM	JUS	JUSTIFICATION	AT		SHEET	田田			FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	V/BUDGET A	CTIVITY	Y				P-1 ITE	4 NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	MMUNITION	, ARMY/	ACTIVITY 1		AMMUNITION		CHG DEMO	SHAPE	CHG DEMO SHAPED M3 40 LB					(E53200)
	FY	96	FY	97	ЬY	98	FY	66	FΥ	00	Łλ	0.1	01 02 FY	. 03
QUANTITY		10	-0-		-0-		-0-		- O		-0-		0 -	-0-/-0-
(Thousands)			, '				)		<b>.</b>		o ·	,		)
COST (In Millions)	ঞ	2.5	-0- \$		-0- \$		-0- \$		-0-\$		-0-\$		±.	-0-/-0-

distance from the target, called a stand-off. A stand-off is provided by a metal tripod for supporting the charge. will penetrate reinforced concrete to a depth of 5 feet. This charge is packed one to a wooden box. This item is The 40 LB Shaped Charge is a surface-emplaced explosive demolition charge containing 28.3 pounds of composition B It is especially useful against thick, reinforced concrete pavement laid on dense, high strength base courses and lined, conical cavity in one end which directs the cone linear material into a narrow jet for penetrating metal, with a 1.7 pound booster of 50/50 Pentolite in a metal container. It is a tapered cylindrical charge having a concrete, earth, or other targets. Maximum penetration is obtained when the charge is exploded at a specific Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price.

## JUSTIFICATION:

The 40 pound cratering charge is the Army's main charge used against reinforced concrete and Armor Plate to blast a hole into which a more powerful explosive can be placed. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the This is a training standard item used in both training and combat. Army's procurement goals.

TYPE CLASSIFICATION DATE:

1967

RCS: DO-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: CHG DEMO SHAPED M3 40 LB

DATE: FEBRUARY 1997 NSN = 1375-00-088-6691 (E53200) PCN:P02QM1D0C4Z

> AMMUNITION APPROPRIATION BUDGET ACTIVITY: PROCUREMENT AFFUNITION, ARMY/ACTIVITY 1.

TOTAL UNIT FY 99 (QTY Q٦٧ TOTAL UNIT COST FY 98 (QTY QTY TOTAL UNIT COST FY 97 (QTY ΩŢ 101 109 468! 701 5201 1891 2559 -7121 -712 1847 669 TOTAL 10483)  $\frac{1.60}{2.38}$ 1.45 UNIT COST 176.20 1.\*GOVERNMENT FURNISHED MATERIAL FY 96 (QTY 1.PRODUCTION ENGINEERING
2.QUALITY ASSURANCE
3.ACCEPTANCE TESTING
4.INTERIM TRANSPORTATION
5.INDUSTRIAL STOCK SUPPORT
6.CAMCF GAIN/LOSS SURCHARGE 10483 325445 1135 130178 QT√ 1.LGAD, ASSEMBLE, AND PACK (LAP) 2. \*COMP B TYPE I GRADE A (LB) 3. \*COMP A-3 (LB) 4.\*TNT TYPE I, FLAKE (LB) PRODUCTION SUPPORT ELEMENT OF COST QM: EACH NONRECURRING SUBTOTAL SUBTOTAL HARDWARE SUBTOTAL.

PAGE NO. 16 of 28 39 P-1 ITEM NO.

**EXHIBIT P-5** 

Z

PCN PO2QM1DOD4Z

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT	r HISTORY	PROCUREMENT HISTORY & PLANNING	1 1 1 1 1 1 1 1 1	DATE	DATE: FEBRUARY 1997	(Y 1997	i :
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1375 - 00 - 088 - 6691	99-880-00	169	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	CHG DE	DEMO SHAPED M3 40 LB	3 40 LB	;   	! ! ! !	(E53200)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	JF YES WHEN AVATE
1. LOAD, ASSEMBLE, AND PACK (LAP) FY 1996 TBS	C/FP	IOC	FEB 97	 MAY 98	10483	176.20	1		:
2. *COMP B TYPE I GRADE A (LB) FY 1996 STOCK ISSUE	N/A	N/A	N/A	N/A	325445				
3. *COMP A-3 (LB) FY 1996 STOCK ISSUE	N/A	N/A	N/A	N/A	1185				
4. *TNT TYPE I, FLAKE (LB) FY 1996 STOCK ISSUE	N/A	N/A	N/A	N/A	130178				
REMARKS:			 	; ; ; ; ; ; ;			! } ! !	; ; ; ; ;	:

TBS - To Be Selected

Columbia   Columbia
Part   Part
May   July   May   Step   Cet   May   Pet   Anal   Fan   May   July   July   May   Cet   May   Pet   Anal   Fan   May   July   July   May   May   M
ST. 67, 87, 87, 87, 87, 87, 87, 87, 87, 87, 8
ST.
S91,87,87,87,87,87,87,87,93   S91,87,87,87,87,87,87,93   S91,87,87,87,87,87,93   S91,87,87,87,87,87,93   S91,87,87,87,87,87,87,87,87,87,87,87,87,87,
ST   ST   ST   ST   ST   ST   ST   ST
ST. 87. 87. 87. 87. 87. 87. 87. 87. 87. 87
ST 87 87 87 87 87 87 87 87 87 87 87 87 87
10   10   10   10   10   10   10   10
1.87,87,87,87,87,87,87,87,87,87,87,87,87,8
PROCUREMENT LEAD TIME   REMARKS
PROCUREMENT LEAD TIME   REMARKS
PROCUREMENT LEAD TIME   RWARKS   RWARKS   RWARKS   RWARKS   ROOF   16   10   16   13   13   13   15   15   15   15   15
PROCUREMENT LEAD TIME   RWARKS   RWARKS   FOOT   ATTENT or   ATTENT   RWARKS   FOOT   ATTENT   RWARKS   FOOT   ATTENT   ATTENT   FOOT   ATTENT   ATTENT   FOOT   ATTENT   ATTENT   FOOT   ATTENT   ATTENT   FOOT   ATTENT
NOTITIAL   Color   C
PROCUREMENT LEAD TIME
PROCUREMENT LEAD TIME   REMARKS
NITIAL
PROCUREMENT LEAD TIME   REMARKS
PROCUREMENT LEAD TIME   REMARKS   REMARKS   PROD. AFTER 1 CCT   AFTER
NITIAL   C   C   C   C   C   C   C   C   C
PROCUREMENT LEAD TIME   REMARKS   REMARKS   FROM THE
PROCUREMENT LEAD TIME   REMARKS   REMARKS   PROD. AFTER 1 CCT   AFTER
PROCUREMENT LEAD TIME   Name
PROCUREMENT LEAD TIME   REMARKS   REMARKS   PROD. AFTER 1 oct   1 oc
PROCUREMENT LEAD TIME   REMARKS   REMARKS   PROCUREMENT   PROP.   APPLIES   PROP.
REVARKS   REVA
PROCUREMENT LEAD TIME
TOTAL   PROD.   APTER 1 OCT
6 6 10 16 6 6 7 13
6 6 7 13

P-1 LINE NO. 39 PAGE NO. 18 OF 28 PAGES

BUDGE	BUDGET ITEM JUSTIFICATION RECORD	IFICATION F	RECORD		DATE: Februa	February 1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	CTIVITY: NITION, ARMY/A	ACTIVITY 1. AM	MUNITION	P-1 ITEM NOMENCLATURE: SELECTABLE LTWT ATTACK	ENCLATURE: TWT ATTACK	P-1 ITEM NOMENCLATURE: SELECTABLE LTWT ATTACK MUNITION (E52000)	(000)	
	FY 96	FY 97	FY 98	FY 99	FY00	FY 01	FY 02	FY 03
QUANTITY (THOUSANDS)	0	6	0	0	0	0	10	10
COST (IN MILLIONS)	0.0	8.8	0.0	0.0	0.0	0.0	9.9	10.0
DESCRIPTION:								

The Army SLAM is a lightweight (2.2lbs), compact hand emplaced muniton offering the user multiple modes of operation. The warhead is an explosively formed penetrator (EFP) to provide a capability to engage and defeat targets from 5 inches to 25 ft. Its 4 modes are bottom attack (magnetic signature), side/top attack (infrared signature), timed demolition and operator-initiated command detonation.

# JUSTIFICATION:

self-destruct feature in all electronic modes of operation. The FY97 procurement quantity supports the Army War Reserve Requirement. The Army SLAM program is a modified NDI. The SLAM was developed for US SOCOM. This device will be modified by including a

Type Classification Date: September 1996

Acquisition Manager: Project Manager, Mines Countermine and Demolitions (PM-MCD)

P-1 SHOPPING LIST ITEM NO. 39

DD Form 2454, JUL 88

Page of Exhibit P-40

19 of 28

WEAPON SYSTEM COST ANALYSIS	YLYSIS		A. Appropriation/Budget	/Budget	B. WEAPON MODEL/SERIES	ODEL/SERIES	C. MANUFACTURER NAME	JRER NAME	D. DATE
EXHIBIT (P-5)			Activity Title/No.  Procurement Ammunition,	nmunition,	POPULAR NAME SELECTABLE LTWT ATTACK	IE TWT ATTACK	ALLIANT TECH SYSTEMS, MN	SYSTEMS, MN	February 1997
			Army/Activity 1.		MUNITIO	MUNITION (E52000)			
Weapon System	Ident.	FY 96	0	FY 97	0006	FY 98	0	FY 99	0
Cost Elements	epoo	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
HARDWARE Selectable Ltwt Attack Munition XM4	æ			800.00	7200				
Trainer Kits - M299	∢			1800.00	513				
SUBTOTAL					7713				
PRODUCTION SUPPORT  1. PRODUCTION ENGINEERING  2. QUALITY ASSURANCE  3. ACCEPTANCE TESTING					546 270 253				
SUBTOTAL					1069				
SUBTOTAL									
TOTAL			1	975.	80				
			ITEM NO. 39		PAGE 20 of 28		Exhibit P-	Exhibit P-5 Weapon System Cost Analysis	Cost Analysis

ET PR	ocur	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	TORY A	ND PLAN	NING EX	HIBIT (P-5	<b>a</b>	A. DATE Febru	TE February 1997
							1		
Ę	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	NC			C. P-1 ITEM   SELECTABLE	C. P-1 ITEM NOMENCLATURE SELECTABLE LTWT ATTACK	RE		
	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
	C/FP	ARDEC	Mar 97	96 unf	0006	800.00	YES	,	,
	C/FP	ARDEC	Mar 97	Jun 98	285	1800.00	YES	ı	1

ExhibitP-5A Procurement History and Planning

P-1 SHOPPING LIST ITEM NO. 39

Previous editions are obsolete

DD Form 2446-1, JUL 87

FY 98/99 BUDGET PRODUCTION SCHEDULE	SODUC	STION S	立のア	<b>FDOL</b>	ш	7	P-1 ITEM NOMENCLATURE	OME	NCLA	TURE										3,50								ļ	Γ
						_	SELECTABLE LTWT ATTACK MUNITON (E52000))	JE L	TWT.A	TAC	K MU	NOL	I (E52	((000						Š		Febru	February 1997	266					
				ACCEPT.	BALANCE				ш	ISCAI	FISCAL YEAR	~	97	_			L		1		FISCAL YEAR	IL YE	AR		98		H	F	Ι.
ITEM/MANUFACTURER/		<u>п</u>			DUE		36					გ	CALENDAR YEAR	AR Y	EAR		97		Γ	١		ľ	CALENDAR YEAR	PAR	YEA	<u>ر</u>	86	Ĺ	<
PROCUREMENT YEAR		œ >	<u>т</u>	1 ocT 96	AS OF OCT 96	0 U F	z 0 2	0 11 (	¬ < 2	шш	<b>Z 4 0 0</b>	Σ∢:	7 3 :	7 3	< ⊃	νш	00	<b>z</b> 0	<u>ت</u>	¬ ∢	it iii	Σ ∢	∢ ۵	<b>∑</b> ∢	¬ ⊃	$\vdash$	∢ ⊃	E S	<b>–</b> 01
1. COMPLETE ROUND		╀	T			· _		,	-	┿	+	+	+	1	٥	1	-	>	O	z	-	œ	<u>α</u>	<del>,</del>	z	+	+	┿	~
	Н									-		$\vdash$	$\perp$	_	L					T	$\dagger$	T	+	-		+	╁	+	
Alliant Tech Systems, Mn F	FY97	4	6	0	6			П			<	Н									T	T	T		-	-	2		9
		+	$\dashv$							$\dashv$		$\sqcup$			Ц														Π
		+	1					1		$\dashv$	4	$\dashv$	_																
		+	$\dagger$						+	$\dagger$	+	$\dashv$	4											_		$\dashv$			
	$\dagger$	+	+					†	$\dashv$	$\dashv$	+	4	4	4							1					-	-		
	$\dagger$	+	†					1	+	+	$\dashv$	$\dashv$	_								$\dashv$								
		+	$\dagger$			$\perp$		1	+	+	+	4	$\downarrow$							7									
	1	+	1			$\downarrow$			1	1	+	$\dashv$	_																
	1	+							1	1	$\dashv$	4	_								ļ.,						_	_	
		+	+							$\dashv$	+	$\dashv$	4														-		
	1	4							$\dashv$	$\dashv$	$\dashv$	4	$\dashv$									Г		H	_		_	_	
	1	+	+						1	+	$\dashv$	4	_												_	_	<u> </u>		
	1	$\dashv$	1					1	+	$\dashv$	4	$\dashv$																	
	$\dagger$	$\downarrow$	$\dagger$						1	$\dashv$	$\dashv$	$\downarrow$	_							7	1								
	+	+	$\dagger$					1	$\dagger$	+	+	4	4								1								Г
		$\downarrow$	+					1	+	$\dashv$	+	4	$\downarrow$		$\perp$						1						_		
		+						7	+	+	+	$\dashv$	$\downarrow$										-						П
		+	+					Ť	+	+	+	4	_	$\downarrow$						1							_		
TOTAL	+	+	- (	•				†	$\dagger$	+	-	4	$\downarrow$		1						7		$\dashv$						
		-	ñ	0	S	_		,	+	+	+	+	╣.	1	ŀ					1	$\exists$			-	1		2		9
						) U F	20>	o w o	~ < Z	T 11 18	2 4 K	Σ∢≻	צכי	רני	∢⊃ຶ	N M G	0 U F	z o >	о ш O	¬ ∢ z	т m ю	Σ ∢ α	< σ α	<b>Σ</b> ∢≻	<b> </b>	7 0 -	A U	σшα	
MANUFACTURER'S	PRODUCTION RATES	JCTIC	N RA	TES	REACHED						PR	PROCUREMENT LEAD TIME	EME	IT LE	AD T	ME					1	_	Į₹	•	-		┨	┨	
NAME & LOCATION	MINIMOM	4 1-8-5		MAXIMUM	å							AD	ADMIN LEAD TIME	EAD.	TIME		2	MANU-		۲	TOTAL								
	SUST											PRIOR	Ä		AFTER	œ	FAC	FACTURING	ల్ల	Ā	AFTER								
TBS	-		3	8								1 OCT	Ħ		1 OCT	Г	•	TIME		-	1 OCT								_
						INITIAL	Z				_	က			9			15	r		21	Γ							_
						REC	REORDE	R (Pre	R (Previous Source)	nrce)		0			9			15			21	Π							
DD Form 2445, JUL 87	Previou	us edition	Previous editions are obsolete	bsolete				Ь	P-1 SHOPPING LIST	PPING	LIST								1			1							7
								_	ITEM NO.	o.	39		PAG	PAGE 22 of 28	of 2	œ						Exhi1	ExhibitP-21 Production Schedule	21 F	rodu	10,10	į V	full	q

Ξ

ExhibitP-21 Production Schedule

Г			<	TER		П		Ī			Τ	Т	Ī	Γ	<u> </u>		Γ	Ţ							Г	Γ								T	
		Ē	È		Н				_	<u> </u>	┼	╀	-		_	_		_	_		_			_	-			_	_	_	-	_	_		
Ī			01	S SEP				_		_	-	ļ	_		_	L	_	_					L_		_	_			_					νшп	
				AUG				L			_																							∢⊃७	
			AR	支																														- D -	
		5	R YE	JUN																														ים ר	
			CALENDAR YEAR	FEB MAR APR MAY JUN JUL																														<b>∑</b> ∢ ≻	I I
		鉴	Ä	APR							$\vdash$	Г		T																				< □ α	
	February 1997	FISCAL YEAR	ľ	AAR /																						_								Σ∢α	
	ıruary	SCA		EB				_		t	t	<del> </del>		_										_			$\vdash$				-	$\dashv$		т п ю	
Date	Fet	"		JAN				-	H	$\vdash$	$\vdash$	$\vdash$	$\vdash$	-		┢								_			$\dashv$	$\dashv$			$\dashv$	$\dashv$	-	¬ ∢ Z	
٩		l	┝		Н				-	-	-	-	_			_		_			-	-	-	_		_		4		_	+	-		0 11 0	
				$\frac{\overline{a}}{\lambda}$		Н	-	_	├-	┝	-	_	<del> </del>	-	_	_	_	_		_	-	-	-	-	-	_		$\dashv$		-	$\dashv$	-	_		
İ				ž	H		-		-	├	$\vdash$	-	$\vdash$	_	_	_	_		Н	_	_	$\dashv$	-			_	$\dashv$	-	$\dashv$	$\dashv$		$\dashv$	_	z 0 >	
		<u> </u> -	8	00	H		-	_	_	┞	╀	-	-	_	_	H				_	_	_	_	_			+	4	$\dashv$	4	4	_		0 U F	
				FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC			-	L	-	L	╀	Ļ	-		L					_	4	$\dashv$	4	$\dashv$			4	4	4	_	_	4		ωшσ	
	:		EAR	₹			L	_	<u> </u>	<u> </u>	╀	_	_		L					4	_	_	$\dashv$	4				_		_	_		_	۷ ⊃ ن	
			ÅR	3			_		_	Ļ	_				_					_	_	_	_					_	_	_	_	_		اد د د	
		8	CALENDAR YEAR	JU.			L		L	Ļ		L	L			L			_	_	4	_	_	_		_		4	4		_	4		7 D Z	
			Š	₹ MA					_		_	L	_						_	_		_	_					_	_	4	_	4		∑ ∢ ≻	
	(00	FISCAL YEAR		₹ AP	Ц			_	L	L	L	L	_													_		_	_					< □ α	
	(E520	CAL		MAI					L		<u> </u>	L	L							_	_	_		_					_		4			≥ < ¤	
	NOL	FIS		FE	Ц		·	L	_	L	<u> </u>	L	L		Ц		_			_		_								_		_		тшю	
	SELECTABLE LTWT ATTACK MUNITION (E52000)			NAL :					L			_	L											٠					_					<b>っ∢</b> z	•
۳	4CK			SEP OCT NOV DEC						L										_	$\dashv$		_	_				_	_	_				<b>□ Ⅲ ∪</b>	
Į	ATT,		6	NO	Ц	$\dashv$		L			L	_		_						_		_								_	_	_		z o >	
P-1 ITEM NOMENCLATURE	M		66	၁၀																		_	_					╛	_	_				0 U F	
	BLE			SEF		_						_	_																_					юшσ	
	ECTA		AR	JAN FEB MAR APR MAY JUN JUL AUG							L																							ע ⊃ დ	
	SEL		CALENDAR YEAR	JJ.																														ר כ ר	
		66	END/	ND.																														ר כ ר	
			CAL	MAY																														<b>≥</b> ∢ ≻	
l		EAR		APR																													ļ	< 0. ℃	
빒		FISCAL YEAR		MAR																														≥ ∢ Ľ	
阜		FISC		FEB																														ппю	
ပ္တ				JAN																														¬ ∢ Z	
8	- 1			DEC			2			Γ																							7	O H O	
덩			86	NOV			2			Г																							7	z 0 >	
<u>o</u>	1			OCT NOV DEC			2																										7	<b>0</b> υ+	
IP.	٦	•	~ ~		П							Γ																							
36			UREF	YEAF	۱۵		FY97																												
E			ACT	ENT	S S																												ΨL		
66			ANC	JREN	ETE	ĺ																											TOTAL		
FY 98/99 BUDGET PRODUCTION SCHEDULE			ITEM/MANUFACTURER/	PROCUREMENT YEAR	1. COMPLETE ROUND	ļ																													
FΥ			E	₫	2		TBS																					_			_				
Щ.					ا				_	_	-		_						_									_				_			

DD Form 2445, JUL 87

P-1 SHOPPING LIST ITEM NO. 35

PAGE 23 of 28

ExhibitP-21 Production Schedule

BUDGE	BUDGET ITEM JUSTIFICATI	IFICATION F	ON RECORD		DATE: Februa	February 1997		
APPROPRIATION/BUDGET ACTIVITY: PROCUREMENT AMMUNITION, ARMY/ACTIVITY	(CTIVITY: VITION, ARMY/A	CTIVITY 1. AM	1. AMMUNITION	P-1 ITEM NOMENCLATURE: CAP, BLASTING: NON-ELEC	ENCLATURE: 3: NON-ELECT	P-1 ITEM NOMENCLATURE: CAP, BLASTING: NON-ELECTRIC, M11 (E81302)	302)	
	FY 96	FY 97	FY 98	FY 99	FY00	FY 01	FY 02	FY 03
QUANTITY (THOUSANDS)	912	0	0	515	0	596	0	596
COST (IN MILLIONS)	3.1	0.0	0.0	1.9	0.0	2.3	0.0	2.4
CECODIOA								

A nondelay military sized blasting cap which is factory crimped to 30ft. of shock tube. This component will be used to branch firing signals to and initiate explosive and demolition devices. This item has not transitioned to the SMCA and will be procured at actual cost.

# JUSTIFICATION:

MDI is a set of components which non-electrically initiates explosives using "shock tube" technology which has been in commercial use for twenty years. The new components are lighter, more reliable and easier to use. In addition, because of a highly competitive commercial market, MDI will be lowere in cost than the present components such as M6 and M7 blasting caps, det cord, etc.

Type Classification Date: September 1993-Generic

Type Classification Date: April 1996 - Standard

Acquisition Manager: Project Manager, Mines Countermine and Demolitions (PM-MCD)

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO. 39 PAGE NO. 24 of 28

Exhibit P-40

WEAPON SYSTEM COST ANALYSIS	<b>ALYSIS</b>		A. Appropriation/Budget	n/Budget	B. WEAPON MODEL/SERIES	ODEL/SERIES	C. MANUFACTURER NAME		D. DATE
EXHIBIT (P-5)			Activity Title/No. Procurement Ammunition, Army/Activity 1.	nmunition,	PUPULAK NAME CAP, BLASTING: NON-ELECTRIC M11 (E81302)	IE NON-ELECTRIC	ICI Explosives, canada	anada	February 1997
Weapon System Cost Elements	Ident. code	FY 96 Unit Cost	912 Total Cost	FY 97 Unit Cost	0 Total Cost	FY 98 Unit Cost	0 Total Cost	FY 99 Unit Cost	515 Total Cost
HARDWARE 1. Cap, Blasting: Non-electric, with 30 ft. shock tube, M11		3.40	3102					3.05	1571
SUBTOTAL			3102						1571
PRODUCTION SUPPORT  1. PRODUCTION ENGINEERING  2. QUALITY ASSURANCE  3. ACCEPTANCE TESTING									248 35 15
SUBTOTAL									298
SUBTOTAL				-					
TOTAL		3.40						3.63	1869
			ITEM NO. 39		PA	PAGE 25 of 28	Exhibit P-	Exhibit P-5 Weapon System Cost Analysis	Cost Analysis

									A. DATE	
	BUDGET PRO	PROCUR	CUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	TORY A	ND PLAN	INING EX	HIBIT (P-5,	€ €	Febru	February 1997
B. APPROPF PROCUREME	B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1, AMMUNITION	1. AMMUNITIC	Z			C. P-1 ITEM	C. P-1 ITEM NOMENCLATURE	RE TELE	000	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	QUANTITY UNIT COST AVAILABLE REV  NOW REQ	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. Cap, Blassii FY 96 FY 99	1. Cap, Blasting: Non-electric, FY 96 ICI Explosives, Canada FY96 Ensign Bickford, Ct FY99 TBS	Option C/FP C/FP	ARDEC ARDEC ARDEC	Mar 96 Sep 96 Mar 99	Dec 96 Feb 97 Jun 99	300000 612000 515000	3.24 3.48 3.05	YES YES YES		
D. REMARKS	D. REMARKS FY96 PROCUREMENT CONSISTS FOR THE BALANCE OF 612,000.	Ø	OF EXERCISE OF MAXIMUM OPTION FOR 300,000 AND A NEW PROCUREMENT	AAXIMUM	OPTION FOR 3	DR 300,000 ,	AND A NEW	PROCURE	MENT	

DD Form 2446-1, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST ITEM NO. 39

PAGE 26 of 28 E xhibitP-5A Procurement History and Planning

æ

EV 98/99 BLINGET DRONICTION SCHEDILLE	וועטמ	Ę	N OC			فيا	7 177.00												r			١	ı			ļ	l	l
	) } }	) : )			1	. &	BAS I	LING		I-ELE(	STRIC	CAP, BLASTING: NON-ELECTRIC, M11 (F81302)	(F81)	302)					-	Date	4	T P	Eahrijan, 1997	07				
	Ī	S	Ť	ACCEPT.	BALANCE				<b></b>	FISCAL YEAR	YEA	2	٦	97			L		1		FISCAL YEAR	LYE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ı	86	İ	L	L
ITEM/MANUFACTURER/		_		Ř	DUE		96					ઇ	LENC	CALENDAR YEAR	EAR		97					ľ	CALENDAR YEAR	DAR	YEAR	98		∢
PROCUREMENT YEAR		<u>«</u> >	Σtσ	10CT 96	AS OF 1	o 0	N 0 >	о m о	7 4 Z	т п <b>в</b>	≨ ∢ α	<b>40α</b> <b>Σ4</b> ≻	7 D Z	7 0 7	۷ n છ	αшт	o ∪ ⊢	z o >	O m C	¬ ∢ z	ппп	≥ ∢ ແ	4 a a	∑ < >	7 D Z	∢⊃ છ	αшд	⊢ш∝
ICI EXPLOSIVES, CANADA	FY94P	∢	110	110	0			T	$\dagger$	$\vdash$	-	$\vdash$	-		1	1				1	1	t	╀	╀╌	╄	╁	1	
	FY95	V	30	0	30			8	$\vdash$	$\vdash$	$\vdash$	-	-	_					T		T			-	+	<u> </u>	Ļ	
	FY96	٧	21	0	300			80	120	ş	_	-	_	_	L	L			T				-	-	-		_	
Ensign Bickford, Ct.	FY96	4	0	0	612			П		100	100	100 120	0 120	0 72		$oxed{L}$			T		T			-	-			
								$\exists$	$\dashv$	$\dashv$	$\dashv$	$\sqcup$	$\sqcup$		Ц	Ц			П		Н							
TBS	FY99 /	<b>A</b>	515	0	515			7	+		-	_	_													_		515
		$\dashv$							$\dashv$	$\dashv$	1	4			Ц						_							
		$\dashv$										Н	Ц		Ш	Щ					-							
		-							$\vdash$	$\dashv$			Ц										_				_	
		$\dashv$										Н	Ц										_		_			
		$\dashv$									Н		Ц			Ц												
										Н			Щ								$\vdash$		$\vdash$					
		$\dashv$											$\sqcup$		Ш					П	-				_			
		$\dashv$						7	$\dashv$	$\dashv$	$\dashv$	$\dashv$	_										_			_		
		+					7	7	$\dashv$	$\dashv$	$\dashv$	$\dashv$	4	_	$\bot$													
		+					1	+	+	$\dashv$	+	4	$\dashv$		_					$\dashv$	1		$\dashv$					
		+					1	+	+	+	+	4	4	_	$\downarrow$				1	$\dashv$	$\dashv$	$\dashv$	$\dashv$					
		+						+	+	+	+	+	4	4	1	$\downarrow$				$\forall$	$\dashv$		-	$\dashv$				
		+					7	$\dagger$	+	+	$\dashv$	$\dashv$	$\downarrow$	4	$\perp$						$\dashv$	1	-	$\dashv$	_			
		+	+				1	+	+	+	+	4	4	4	_	$\perp$					+		+	$\dashv$				
	1	+					1	-	-	-	-	-	-	-	$\downarrow$					+	$\dashv$	+	-	-	_			
TOTAL		$\dashv$	9/9	110	1457		7	긁	12 2	긁	100 100	$\Box$	0 12	72	$\rfloor$													515
						0 U F	z o >	oшo	¬ ∢ z	~ m m	2 4 A 4 9 A	<b>2 4</b> >	¬ ⊃ Z	רכי	ע⊃ט	αшσ	0 U F	z o >	о ш o	¬ ∢ z	тшю	∑ ∢ Ľ	4 L Z	∑ < ≻	7 D Z	< ⊃ ∪	νшα	
MANUFACTURER'S	PROD	UCT	PRODUCTION RATES		REACHED						PR	PROCUREMENT LEAD TIME	REME	NT LE	AD T	IME						2	REMARKS		$\left\{ \right.$			
NAME & LOCATION	MINIMOM		1-8-5 M	MAXIMUM	å							AD	MIN	ADMIN LEAD TIME	TIME			MANU-		75	TOTAL	<u> </u>	Y96 I	Proc	urem	FY96 Procurement consists of	onsis	ts of
	SUST										<u></u>	PRIOR	JR	_	AFTER	æ	FĀ	FACTURING	Š	ΑF	AFTER	Ð	xercis	se of	max	exercise of maximum option	opti	. uc
ICI EXPLOSIVES, CAN	20		120	300								1 OCT	5	_	1 OCT	H		TIME		-	1 OCT	Ę,	or 300	000,	and)	for 300,000 and a new	≥	
ENSIGN BICKFORD, CT	50		120	300		INITIAL					$\dashv$	3			9			3			6	Ē	rocur	eme	nt for	procurement for the balance	alan	
						REC	REORDE	R (Pre	R (Previous Source)	urce)		3			9			3			6	<u>ō</u>	of 612,000.	.00				
DD Form 2445, JUL 87	Previo	us editi	Previous editions are obsolete	Solete				<u>α</u>	P-1 SHOPPING LIST	PPING	LIST																	

PAGE 27 of 28

39

ITEM NO.

ExhibitP-21 Production Schedule

							CAP, BLASTING: NON-ELEC	, BLA	STING	NON	FLEC	TRIC	CAP, BLASTING: NON-ELECTRIC, M11 (FR1302)	FR1302	=								_	1	,	ŗ					
			FISCA	FISCAL YEAR	1 1	ľ	66						FIS	FISCAL YEAR	EAR		8			-				FISCAL YEA	FISCAL YEAR	, E		10		$\vdash$	$\vdash$
ITEM/MANUFACTURER/	86				ઢ	CALENDAR YEAR	AR YE	EAR		66		$\vdash$			1	CALE	CALENDAR YEAR	YEAR		8			L			N N	NDAR	CALENDAR YEAR	_	٦Ē	T.
	OCT NOV DEC		JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	MARA	PR M	lor V	Ş z	AUG	SEP	팅	δ O	EC JAN	밀	FEB MAR APR MAY JUN JUL AUG	APR	MAY	ND!	<u>الا</u>	UG SEP	90	OCT NOV DEC	V DEC	_	JAN FEB MAR	MAR	APR	MAY	APR MAY JUN JUL	JUL A	AUG S	SEP TER
	+			+	+-	- -	-			$\top$	+	+	-	$\bot$		$\top$	$\dashv$	+	+	+	_	_							$\dashv$		
				H	H	H		Ц		T		+	$\downarrow$				$\dagger$	+	+	+	$\bot$	_								+-	+
					-					H	H	Н	$\square$			П			H		_							<del> </del>	-	+	$\dagger$
	1			1	$\dashv$	+	_			$\dashv$	$\dashv$	_	_					H	H		L	L	L					-		<u>.                                    </u>	
TBS				+	+	활	9	<u>8</u>	100	115	$\dashv$	4				П		H	Н	Н	Н										
	+	1	1	$\dagger$	+	+	$\downarrow$			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\Box$		$\dashv$		$\dashv$	$\dashv$												
	+		_	+	+	+	$\downarrow$	$\int$		$\dagger$	+	$\dashv$	$\downarrow$	$\prod$		$\dashv$		$\dashv$	$\dashv$	_	$\perp$	$\downarrow$									
	+			$\dagger$	+	+	4	$\int$		$\dagger$	+	+	$\downarrow$	$\int$		+	+	+	$\dashv$	_	4	$\downarrow$	$\perp$				İ		_	$\dashv$	
	+	ightharpoons		+	+	+	$\downarrow$			$\dagger$	+	+	1			$\forall$	$\dagger$	$\dashv$	+	$\dashv$	_	$\dashv$							+		
	+	1	1	$\dagger$	+	+	$\downarrow$	$\int$		$\dagger$	+	$\perp$	4			$\dagger$	$\dagger$	+	+	4	$\downarrow$	_									_
	+		<u> </u>	+	+	+	4	$\int$		$\dagger$	+	+	1			1	$\dashv$	+	+	$\dashv$	_	_								$\dashv$	
	$\frac{1}{1}$	1	1	+	+	+	4	$\int$		$\dagger$	+	+	1			1	+	+	$\dashv$	4	_	4									
	-		1	+	+	+	1	$\int$		$\dagger$	+	4	-	$\prod$		7	+	$\dashv$	+	4	4	$\downarrow$									
	+	1		+	+	+	1	$\int$	1	$\dagger$	+	+	$\downarrow$			1	$\dagger$	$\dashv$	$\dashv$	4	$\dashv$	4							-		
	1		T	+	+	+	$\downarrow$	$\prod$	1	$\dagger$	+	+	4			+	+	$\dashv$	$\dashv$	4	_	_	$\bot$								
			$\dagger$	+	+	$\downarrow$	$\downarrow$	$\prod$	1	$\dagger$	+	+	1			1	$\dagger$	+	$\dashv$	4	-	$\downarrow$							-		
	+		<u>†</u>	+	+	+	$\downarrow$	$\int$	1	+	+	+	$\downarrow$	Ţ		$\dagger$	+	+	+	4	_	_								_	
			†	+	+	+	1	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$		$\dagger$	+	$\downarrow$	1			$\dagger$	+	+	+	+	$\downarrow$	_					1		+		
	+	1	T	$\dagger$	+	+	_	$oxed{I}$		$\dagger$	+	+	1	Ţ		+	+	+	$\downarrow$	$\downarrow$	$\downarrow$					1		1	1	_	$\dashv$
	+		$\dagger$	$\dagger$	+	+	1	$\prod$	Ī	$\dagger$	+	+	$\downarrow$			$\dagger$	+	+	+	+	$\downarrow$	$\downarrow$					1	1	$\dashv$	+	
			T	+	+	$\downarrow$	1		T	$\dagger$	+	+	1		İ	$\dagger$	+	+	+	$\downarrow$	4	1				1		+	+	$\dashv$	-
	+		<u></u>	-	+	$\downarrow$	1		T	$\dagger$	+	+	1		<u> </u>	$\dagger$	+	+	+	4	$\downarrow$	_				1	1	$\dagger$	_	$\dashv$	_
	-		T	+	+	Ļ	1			+	+	$\bot$	1			$\dagger$	+	+	$\downarrow$	$\downarrow$	1	$\perp$						+	+	+	$\dashv$
			T	_	-	-				$\vdash$	_	_	_			$\dagger$	+	+	+	1	1	$\perp$				1			+	+	+
				<del> </del>	H	_				f						$\dagger$	+	╁	+	1	1						$\dagger$		+	+	+
					_	L					-					$\vdash$	$\vdash$	-	-	_	_					Ť	$\dagger$	$\dagger$	+	+	+
TOTAL	$\vdash$				$\dashv$	Ť	_				-									-						1		-	-	+	+
	2 0 >	¬ ∢ Z	т ш ю	Σ < α	∢ Δ Δ ×	7 D Z	- D -1	∢⊃७	o m o	0 U F	Z O >	¬ ∢ Z	- w	Σ∢α	< □ α	<b>≥</b> ∢ ≻	7 D Z	د ت 0 ت	o m σ	0 U F	z 0 >	<b>□ W</b> ∪	¬ ∢ Z	r n 8	≥∢⊄	< 0 K	≥ < ≻	7 D Z	7 7 7	V ⊃ Ø	оша
DD Form 2445 IIII 87								1	TSI I SINGGO TSI A	1913											-	1	l								i
70IIII £443, 00L 07								ITEM NO.	5 Q	39	6			PA(	PAGE 28	of	28								Exh	ibitī	P-21	Prod	ExhibitP-21 Production	, i	

ExhibitP-21 Production Schedule

2

BUDGET ITEM APPROPRIATION/BUDGET ACTIVITY	Ę										_			
APPROPRIATION/BUDGET ACT	4	ITEM	JUS	TIF	JUSTIFICATION SHEET	TIC	N S	HEF	E		Ē	FEBRUARY 1997	1997	
	PIVITY					ď.	P-1 ITEM NOMENCLATURE	NOMENO	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	ARMY /	ACTIVITY 1	. AMMUNITION	ITION		GR	GRENADES ALL TYPES	TY TY	PES				)	(E34000)
FY	96	FY	97	FY	86 X	~	FŸ	66	FY	00	FY	0.1	02 FY	03
QUANTITY	-0-	-0-			-0-		-0-		-0-		-0-		-0-	0 - / - 0 -
COST (In Millions) \$ 2:	23.9	\$ 4.2		\$	14.6	w	15.5	<b>₩</b>	\$ 22.6		\$ 20.0	0	\$ 1.	1.7/1.6

This budget line includes Grenades ALL TYPES.

Cost Analysis	
hibit P-5 Weapon System	

PROCUREMENT AMMUNITION ARMY/	<u> </u>	A APPN/BUDGET ACTIVIT	T ACTIVITY	Y TITLE/NO PAA		B WEAPON GR	RENADES	GRENADES, ALL TYPES	ES	C. MANUFACTURER NAME To Be Selected (TBS		D. DATE FEBRUA	ATE FEBRUARY 1997
	₽		FY 96			FY97			FY98			FY99	
Cost Elements	go	TotalCost	Qty	UnitCost	TotalCost	â	UnitCost	TotalCost	à	UnitCost	TotalCost	Qty	UnitCost
	H	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
(E31900) Fuze Grenade Hand Prac, M228		10491	3330	3.15							2000	808	2.48
(E34002) Grenade Hand Smoke Yellow, M18		1291	40089	32.20				2456	77001		3195	98129	32.56
(E34004) Grenade Hand Smoke Violet, M18		570						1377	43161	31.90	1509	46328	32.57
(E69300) Grenade Hand Smoke Tng, M83		11587	348179	33.28	4164	4164 122217	34.07	9168	236891	38.70	8176	206924	39.51
(E00500) Grenade Smoke Screening Tng, M82											009	4	43
(F47700) Grenade, Launcher, Smk Screening, XM90								1636	28047	37.97			
		•											
	-												
												<del></del>	•
									-				
		·											
												<del></del>	
	-												
TOTAL	┪	23939			4164			14637			15480		
				II	ITEM NO. 40	PAGE	2 of 17						

												DATE			
	BUDGET ITEM		LTEM	JUS	TI	FICA	TI	JUSTIFICATION SHEET	HE]	EJ		·	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	VITY					$\vdash$	P-1 ITEM NOMENCLATURE	1 NOMEN	ICLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, A	RMY/A	CTIVITY 1		AMMUNITION			FUZE GREI	NADE HA	FUZE GRENADE HAND PRAC M228	1228				(E31900)
	FY	96	FY	97		FY 9	86	FŸ	66	FY	00	FY	0.1	02 FY	0 }
QUANTITY (Thousands)	3331	31	-0			-0-		808		2094		1325		· () -	- 0 - / - 0 -
COST (In Millions)	w	10.5	-0- \$		⋄	-0-	₩	2.0		\$ 5.3		\$ 3.4		\$	-0-/-0-

The M228 fuze is a pyrotechnic delay-igniting fuze used with the M69 delay practice hand grenade. It is used by the individual soldier for training purposes. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price.

# JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1971

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1330-00-168-5502

PCN:P02QM1DOC4Z

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ACTIVITY ON, ARMY/ACTI	IVITY 1.	AMMUNITIC	N	FU	1 ITEM NOI ZE GRENAD	P-1 ITEM NOMENCLATURE: FUZE GRENADE HAND PRAC M228	M228		DATE: NSN = 13	DATE: FEBRUARY 1997 NSN = 1330-00-168-5502 (E31900)	Y 1997 58-5502 900)
	FY 96 (QTY	33.	3330704) FY	FY 97 (	(QTY	_	FY 98 (QTY	А	_	FY 99 (QTY	8	808470)
ELEMENT OF COST QM: EACH	УТУ	UNIT	TOTAL	ŶŢŶ	UNIT	TOTAL	ΥΤΏ	UNIT	TOTAL	QTY	UNIT	'FOTAL
HARDWARE 1.COMPLETE ROUND	3330704	2.47	8241							808470	2.13	1726
SUBTOTAL			8241 —									1726
PRODUCTION SUPPORT	ERING		252	<u> </u>								176 4 20 12
S.INDUSTKIAL STOCK 6.CAWCF GAIN/LOSS S	SUPPORT		1506									62
**************************************	*********	*******		******	*********	*********	*********	********	***	**************************************	; ; ; ; ;	274
TOTAL P-1 LINE ITEM		3.15	10491								2.47	2000

4 of 17 PAGE NO. 04 P-1 ITEM NO.

EXHIBIT P-5

PCN PO2QM1DOD4Z

APPROPRIATION/BUDGET ACTIVITY	CTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1330-00-168-5502	00-168-55	502	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	, ARMY/ACTIVI	TY 1. AMMUNIT	TION	FUZE G	FUZE GRENADE HAND PRAC M228	PRAC M228	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	(E31900)	00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	ACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. COMPLETE ROUND FY 1996 MARTIN EI	IN ELECTRONICS	C/FP	OOI	SEP 96	DEC 96	3330704	2.47	1 1 1 1 1 1	; ; ; ; ;	1
PERRY, FL FY 1999 TBS	ı	C/FP	IOC	MAR 99	DEC 99	808470	2.13			

TBS - To Be Selected

P-1 ITEM NO. 40 PAG

PAGE NO. 5 of 17

EXHIBIT P-5A

WI'POL SYMBOL	E31900	>د.	E-F	JUL AUG SEF R		0.00	0.00	0.00	0.00	00		000	00 0	0.05	00	00.0	00 0	00 0	1 25	77	00.00	00.00	00.00	00 0	0.0			000	7 No.					TIT.I.TONG
REQUIREMENTS CONTROL SYMBOL DD-CCMP (AR) 1092			AR 99	APR MAY JUN														15						.15				20						QUANTITY IN MILLIONS
IARY 1997		FISCAL YEAR 99	CALENDAR YEAR	OCT NOV DEC JAN FEB MAR									.03					.37.40.27.1						.40.40.27.1				.40.40.27.15						
PATE FEBRUARY	M228		86	JUL AUG SEP																									REMARKS	<u> </u>	OCT			   
P-21) P-1 TTEM NOMENCLATTIRE	FUZE GRENADE HAND PRAC M228	/EAR 98	CALENDAR YEAR	JAN FEB MAR APR													60.						60					60	T.EAD TIME	.1.—	PROD. AFTER 1	9 15	0	
	FUZE GRE	FISCAL		SEP OCT NOV DEC		20 22	\$										1.10					.30.33	.10					33 .10.	ROCTIREMENT	ADMIN LEADTINE	PRIOR AFTER 1 OCT 1 OCT	9 9	9	┨
ULE (EXHIBIT			97	R MAY JUN JUL AUG		0 20 20 20	. 20. 30. 30															0.30.30.30.30						.30,30,30,30,30,30,30				INTERIN	REORDER	
SCHED	( 1. AMMUNITION	1EAK 97		C JAN FEB MAR APR		30 30 30 30	00.00									10.04						40.34.30.30.30	1					.40.34.30.30.30	RATIFIC MONTHS TO	MAXTMEN AFTER D-DAY	1.00 5	1.00 5		
PRODUCTION TY	TIVITY 1. AN	BAL		OCT NOV DEC	00 00 00	3 33	000	0.00	0.81	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.03	0.00 0.02	0.00 0.00		0.00 0.19		1.25		0.00	3.47	0.19	1.22	2.08			0.00 6.96	PRODITION	HINDON 1-8-5 MAXIMIM AFTER	0.20 0.40	0.20 0.40		
PF APPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	PROGRAM QTY PRIOR		FY FY		000		00.0	0.81 0.00	0.00	0.00		_	0.02 0.00	0.00				1.25 0.00		0.00			1.22 0.00	2.08 0.00					NAME	FL	1		
RIATION/BUD	REMENT AMMUNI	លការ	¥ >	FY FY 67	00 0				l A	SOF				SOF	M MC 0.00	0.14	M MC 0.19	M MC	M MC		익	3.47	ALL 0.19	ALL	ALL			TOTAL MONTHLY PRODUCTION	TO ACTIVITY OF	MANOFACTURER  & LOCATION	MARTIN ELEC.	TO BE SELECTED		
APPROF	PROCU	FAC			2	,-		Σ	2 M	Σ	Σ	Σ	2 M	2 M	Σ	7		2 W											ر 4	NO.		7		

=

ot, SYMBOL	E31900	JA	E-G	AUG SEP R		0.00	0.00	0.00	00.00	0.00		00.00	0.00	00.00	00.00	00.00	00.00	00.00	00.00	0.00	0.00		00.00	00.00	00.00	00.00	00.00			00 0						IN MILLTONG	CNOTE	
REQUIREMENTS CONTRAL SYMBAL DD-COMP (AR) 1092			02	APR MAY JUN JUL A																																OUANTITY IN MI	1 1	
1997 DD	l i	L YEAR 02	CALENDAR YEAR	DEC JAN FEB HAR A																																no		
DATE FEBRUARY 1		FISCAL		L AUG SEP OCT NOV																											REMARKS						54569	200
	P-1 ITEM NOMENCLATURE FUZE GRENADE HAND PRAC M228	01	(EAR 01	APR MAY																												TIME	AFTER 1 OCT	7	CT	15	7 05 17 BB	7
	1 ITEM NOMENCLATURE ZE GRENADE HAND PRAC	SCAL YEAR	CALENDAR YEAR	NOV DEC JAN FEB MAR																												EMENT LEAD	PRIOR AFTER 1 OCT PROD.	0	o 	6 9	DAGE NO	ł
(EXHIBIT P	P-1 FUZI	I H		JUL AUG SEP OCT																												PROCUR IADMIN D	PRIOR 1 OCT		INITIAL	REORDER 6	P-1 LINE NO 'O	
OULE	NO	00	R YEAR 00	B MAR APR MAY JUN						1					-						10, 10, 19, 40, 28						1.10.19.40.28			1.10.19.40.28		REACH MAX	AFTER D-DAY	חנ	n	RE	0-1	4
TION SCHE	Y 1. AMMUNITION	ISCAL YEAR	99 CALENDAR YEAR	OCT NOV DEC JAN FEB MAR						.30.30.21			<del> </del>			. 02					08,10,1		-				.40.40.31			.40.40.31.1		PRODUCTION RATES MANNER TO MINIMUM MENON MANNER TO MANNE	1-8-5 MAXIMUM	1	0.40 T.00			
PRODUCTION	ACTIVITY I, ARMY/ACTIVITY	ACCEP. BAL PRIOR DUE			66 66	0.00 0.00	3.33 0.00	0.00 00.00	8	0.00 0.81		0.00 0.00	0.00 00.00	0.00 00.00		0.00 0.05	0.00 0.00	0.14 0.00	0.19 0.00	1.19 0.00	0.00 11.25		0.00 0.00	3.47 0.00	0.19 0.00	1.22 0.00	0.00			4.88 2.08			TSUS	0.20	0.20			
	`` ⊷ાં	PROGRAM OTY		FY FY	P 97   98   99		3	0.00	0.00	0.81		8	0	00.0	0.03	0.02	0	4	0.19	1.19	1.25		0	7	0.19	1.22	b.08			TOTAL MONTHLY PRODUCTION		MANUFACTURER NAME	<b>⊣</b>	MARTIN ELEC. FL	TO BE SELECTED			
	APPROPRIATION/BUDGET APPROCUREMENT AMMUNITION,	សមា		Н			1 MA 3.3	M A	M A	2 M A	-		M SOF 0.00				M MC 0.00	2 M MC p.14	2 M MC	2 M MC			ALL 0.00	ALL B.47	ALL	ALL	ALL			POL		FAC MANU		I MAKI'IN				

SHEET
JUSTIFICATION
ITEM
BUDGET

	1997
DATE	FFBBILLDV

APPROPRIATION/BUDGET ACTIVITY	BUDGET A	CTIVITY					P-1 I	P-1 ITEM NOMENCLATURE	<b>VCLATURE</b>					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. A	MUNITION,	, ARMY/A	CTIVITY 1.	AMMUN	MMUNITION		GRENAD	E HAND SI	GRENADE HAND SMK YELLOW M18	V18				(E34002)
	FY	96	FY	67	FΥ	86		66	FY	00	FY	01 02 FY	02	FY 0.3
QUANTITY		40	-0-		77		ασ	α	103		103			- 0 - 7 - 0 -
(Thousands)			•		-		`	)	001		0.7			
COST (In Millions)	w	1.3	-0- \$		\$ 2.5	.5	\$ 3.2		\$ 3.4		3.5		v	- 0 - / -0 -

composition. The filler is topped with a starter mixture utilizing the M201A1 fuze. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price. The M18 Yellow Smoke Hand Grenade is used for ground to air or ground to ground signaling. Each grenade emits smoke for approximately 50 to 90 seconds. The body is made of thin sheet metal and is filled with yellow smoke composition.

# JUSTIFICATION:

This is a training standard item used in both training and combat. FY 98/99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1943

Page of **Exhibit** 

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: GRENADE HAND SMOKE YELLOW M18

DATE: FEBRUARY 1997 NSN = 1330-00-289-6854 (E34002)

PCN: POSQM1DOC4S

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

TOTAL, 282 3195 2757 2757 32 20 97 98129) UNIT 28.09 4.12 32.56 (QTY 79 QTY 98129 66 FΥ 217: 5: 24: 15: 76: 2119 2456! TOTAL 77011) UNIT 27.52 4.04 31.89 (QTY 77011 QTY 62 98 FΥ TOTAL UNIT (QTY QTY 97 FΥ 31 12 185 185 1291! 1014 TOTAL 1014 40089) 25.29 32.20 UNIT 7.97 (QTY QTY 33 40089 1. PRODUCTION ENGINEERING
2. QUALITY ASSURANCE
3. ACCEPTANCE TESTING
5. INTERIM TRANSPORTATION
5. INDUSTRIAL STOCK SUPPORT
6. CAWCF GAIN/LOSS SURCHARGE 96 FY TOTAL P-1 LINE ITEM! 1.LOAD, ASSEMBLE, AND PACK (LAP) 2.NITROCELLULOSE WW GR D (LB) PRODUCTION SUPPORT ELEMENT OF COST QM: EACH HARDWARE SUBTOTAL SUBTOTAL

P-1 ITEM NO. 40

PAGE NO. 9 of 17

EXHIBIT P-5

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PROCUREMENT	HISTORY	PROCUREMENT HISTORY & PLANNING	: : : : : : : : : : : : : : : : : : : :	DATE	DATE: FEBRUARY 1997	RY 1997	
APPROPRIAT	APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1330-00-289-6854	00-289-6	854	
PROCUREMEN	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ITY 1. AMMUNI	TION	GRENAD	E HAND SMOK	GRENADE HAND SMOKE YELLOW M18		1	(E34002)	02)
LINE ITEM/ FISCAL YEAR	, AR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQU	TE YES WHEN AVATI,
1. LOAD,	1. LOAD, ASSEMBLE, AND PACK (LAP)	; ; ; ; ; ; ; ; ; ; ;	; [ ] [ ] [ ] [ ] [ ] [ ]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ; ;		:	
FY 1	1996 PINE BLUFF ARSENAL	SS/FP	IOC	MAY 96	APR 97	40089	25.29			
FY 1	1998 PINE BLUFF, ARSENAL DINE BITTE AB	SS/FP	IOC	MAR 98	APR 99	77011	27.52	YES	ON	
FY 1	FY 1999 PINE BLUFF, ARSENAL PINE BLUFF, AR	SS/FP	IOC	MAR 99	APR 00	98129	28.09			
2. NITROC	NITROCELLULOSE WW GR D (LB)									
FY 1	1996 HERCULES AEROSPACE	SS/CPAF	IOC	JAN 96	MAR 97	33	7.97			
FY 1	1998 HERCULES AEROSPACE	SS/CPAF	IOC	JAN 98	MAR 99	62	4.04	YES	ON	
FY 1	1999 HERCULES AEROSPACE RADFORD, VA	SS/CPAF	IOC	JAN 99	MAR 00	79	4.12			
REMARKS:		! ! ! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1			 	: : : : :	

P-1 ITEM NO. 40

PAGE NO. 10 of 17

EXHIBIT P-5A

×

WHE L	E34002	==*	< <u>-</u>	as ™∝		0.00	0.00	00.00	98.0		0.00	0.00	0.00	7.5			0.00	0.00	0.00	00	153												153					NDS	
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 10%2	ш			JUL AUG SI	+	+	+				+	+	+										F				-			+	+							QUANTITY IN THOUSANDS	
ENTS C			ı.	J. (7)								_		T							$\vdash$		-		$\vdash$					+	+	+	$\dashv$					Z	
COMP			00	AFR MAY	+	+	+	40 37	: 1		$\downarrow$	1	$\downarrow$	1		-			_	40 37	1									1		11	37					VTITY	
REC DD-			EAR	MAR AF	+	+	+	+		-	+	+	+	+	$\vdash$		_		_	4	-	<u> </u>		L	L			$\dashv$	+	+	+	H	40					OUA	
		EAR	7.7 CALENDAR YEAR	JAN FEB MAR	1		Ţ	L																						1									
1997		⊱		DEC JAN	+	+	╀	-		-	+	+	+	╀	$\vdash$					L	L		L				-	+	$\dashv$	+			4						
		FISCAL		NOV							1	$\perp$	$\dagger$								-					$\dashv$	+	+	+	+	+	H	+						
FEBRUARY		<u>FI</u>	-	SEP OCT	1	-	$\perp$	_		_	1	4	L	L														1	1										
TE FEI				AUG SE	$\dagger$	+	╁	┢	H	$\dashv$	+	╁	+	+							-				$\dashv$	+	$\dashv$	+	+	-	-	$\vdash$	-	RKS					
DATE	M18			Jur		I	I				1	1	1																				$\dashv$	REMARKS					PAGES
	'RE ILLOW		86	MAY JUN	+	+	+	├	H	+	+	+	+	-	H		_		$\dashv$		_	Н			4	-	$\dashv$	$\downarrow$	-	-		I	]	П	T.J.			_ !	17
	LATU (E YE			APR								$\perp$	1_									Н			_	$\dashv$	+	+	+	+	H	+	1	田田	AL.	0	0		OF_
	MENC SMO	86	CALENDAR YEAR	FEB MAR APR	+	+	-	-		$\dashv$	4	$\downarrow$	1	$\perp$					$\dashv$								1	1	ļ					TIN	AFT	_	-	-	
	P-1 ITEM NOMENCLATURE GRENADE HAND SMOKE YELLOW M18	EAR	CALEND	JAN	$\dagger$	$\dagger$	+	$\vdash$	H	+	╁	t	1	┝	Н		$\dashv$	+	┪				$\square$	-	+	$\dashv$	+	+	+	+	$\sqcup$	$\dashv$	$\frac{1}{2}$	CEAD	PRIOR AFTER TOT	13	7		PAGE NO.
21)	I TEN	AL.		v DEC	$\bot$	$\bot$				1	1		L												$\exists$	1		1		İ				LNE	EBE		+	1 1	PAGE
P-21	GREN	FISC		NON LOO	+	+	$\vdash$		$\vdash$	+	+	+	$\vdash$		$\vdash$	$\dashv$	$\dashv$	$\dashv$	-	_	_		$\Box$	-	_	+	+	+	+	-	H		$\downarrow$	JREM	AFT	9	- 4		04
ĬŢŢ				SEP	Ţ					1		I	L													1	$\perp$			1				ROCI	PRIOR 1 OCT	9	۷	1	
(EXHIBIT				JUL AUG	+	╀	-		$\dashv$	+	+	H	-	Н	$\dashv$	$\dashv$	$\dashv$	4	-	$\dashv$	_			4	$\dashv$	$\dashv$	$\downarrow$	+	$\downarrow$	-							REORDER	]	P-1 LINE NO.
EX			97	NOS	1	Ī																		1	1	+	$\dagger$	+	$\dagger$	+	H	+	$\frac{1}{2}$				REOF		-1 PI
띰				APR MAY	╀	40			4	+	$\downarrow$	┡	-	Н	-	-	-	40	_			_	_	$\Box$	$\bot$	$\prod$	$\perp$	1	ļ	1			5		<u> </u>	T		- -	Δ,
SDULE	z	97	YEAR		<b>1</b>				1	$\dagger$	$\dagger$		$\vdash$	Н		1	+	7	$\dashv$	+		$\dashv$	-	1	+	$\dashv$	+	+	╁	+	H		7	PRODUCTION RATES NOWTHS TO MAININEMENT IN REACH MAX	PTER D-I				
SCHE	Y 1. AMMUNITION	AR 9	CALENDAR YEAR	JAN FEB MAR	$\perp$					1	I						1		$\downarrow$						1		1	1						SE	¥ 0	1 1		$\left  \cdot \right $	
1 1	MMO	ਤ }	CA	DEC JA	+	+	Н	$\dashv$	$\dashv$	+	+	╁	H	Н	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	-	_	-	$\dashv$	+	+	-	+	+	+	+	igert		-	RAT	MAXIMUM	1 1			
TIC	1. 7	SCA	96	OCT NOV					$\downarrow$	Ī	Ţ								1								1	1	1	1			1	ION	7 50	2			
DAC	ALL I		Ш	_	18	0	9	9	ᇹ	-	3 5	1 8	18	0	$\dashv$	$\dashv$		4		=	23	$\dashv$	$\dashv$	4	4	4	$\downarrow$	_	$\downarrow$	-		-	5	DOCT	5	1	-	┨╏	
PRODUCTION		N BAL	AS OF		0.00 0.00	0.00 40.0	0.00 0.00	0 77.0	0 98.0		0.00	0.00 00.00	0.00 0.00	0.00 55.0	_	4	0.00	0.00 40.0	0.00 0.00		0 153	4	$\dashv$	4	4	$\downarrow$	4	$\downarrow$	$\downarrow$	_	Ц	270	_1	PRO	SUST				
PF	MX/A	ACCEP.	<u>و</u> ج	90	0	0.	0.0		0.0	٩		0	0.0	0.0	_	4	힉	힣	힣	0.00	0.00			_	$\perp$	┙	$\perp$			L		0	3	旦	ļ				ĺ
	I, AR	OTY		FY					98.0					55.0							153													NAM	6	<b>E</b>			
шас	TION	RAM		FY				0.77					0.00							0.2												ÄHLY	ے چ	JRER	NOTI				
	MOIN	PROGRAM OTY		FY 07			0.00		$\perp$			0.00		Ц	$\perp$				0.0													TOTAL MONTHLY	OCTIC	ACT	CA	115			
NO I			<u> </u>	FY	00.0	40.0	Ц	$\downarrow$	_	٤	2 6				$\perp$			80.0	_						$\perp$				$\prod$			TOTA	PROD	MANUFACTURER NAME	DINE BILEE ARE				
A DDB ODB TATTON / BIIDGET	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	លឝា		>	4		Ą		Æ	٤	ر ا ا	Ñ	K MC	K MC			ALL	ALL	ALL	ALL	ALI.											_		Σ	AT C	-	$\perp$		
0000	ROCU		Σ		×		×		×	•	4 1	×	×	X	$\exists$	$\forall$	Ŧ	Ŧ	1	1	$\exists$	1	T	$\exists$	1	T	T	Ŧ	Ŧ	F	П	$\exists$		FAC	9 -				
	1	FA	02			-		-																											-1-				

RODUCTION SCHEDULE (EXHIBIT P-21)       P-1 ITEM NOMENCLATURE       DATE FEBRUARY 1997       PERMINENTION         IIVITY 1. AMMUNITION       GRENADE HAID SMOKE VELLOW M18	TISCAL YEAR FISCAL YEAR FISCAL YEAR 01 02	AS OF 99 CALENDAR YEAR 00 CALENDAR YEAR 01 CALENDAR YEAR 02	OCT NOV DEC JAN FEB NAR APP JUN JUL AUG SEP OCT NOV DEC JAN FEB NAR APP NAV JUN JUL AUG SEP OCT NOV DEC JAN FEB NAR APP NAV JUN JUL AUG SEP OCT NOV DEC JAN FEB NAR AFP	00.00 00.00	0.00		40 40 18				10 10 10 25	00.000		0.00	0.00	0.00					17 153   50 50 28 25   0.00	UREMENT LEAD TIME A LEADTHE A AFFER A	61 0 0
SCHEDULE	ISCAL YEAR	TO AS OF 99 CALENDAR YEAR	FY FY FY FY	A 0.00	40.0	K A 77.0 77.0 0.00	A 98.0 0.00 98.0	K MC 0.00 0.00 0.00 K MC D OIL	00.00	0.00		ALL 0.00   0.00   0.00	ALL 40.0   40.0   40.0	0.00	77.0 77.0 0.00	20					50 50	FAC MANUFACTURER NAME HINTHUM 1-8-5 MAXIMUM AFTER P-DAY  1 PINE BLUFF ARS, AR 60.00 7.50 288.0 0	

											DATE			
	BUDGET ITEM	ΙΞ	ITEM	JUS	JUSTIFICATION SHEET	AT.	ION S	HE	EI		Ħ	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	/BUDGET AC	TIVIT	Į.				P-1 ITEM NOMENCLATURE	NOMEN	ICLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY	MMUNITION,	ARMY /		1. AMMUNITION	ITION		GRENADE H	AND SI	GRENADE HAND SMOKE TNG M83	183			9 <del>E</del> )	(E69300
	FY	96	FY	26	FY	86	FY	66	FY	00	FY	0.1	0.2 FY	0
QUANTITY		348	122		237		207		210		211		-0-/-0-	-0
(Trousands)														
COST (In Millions)	w	11.6	\$ 4.2		\$ 9.2		\$ 8.2		\$ 8.5		\$ 8.7		\$ -0-7-0	- 0 -

03

ô

### DESCRIPTION:

smoke cloud is produced to to conceal troop, vehicle, or other march movements. The M83 training grenade is deployed company, and battalion units. This item is Code A, approved for service use. This item will be procured through the The M83 hand grenade contains approximately 1 pound of environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting fuze. After initiation, there is a 3 second delay after which a dense in a similar manner as the M8 series of service smoke grenades. It is used by the individual soldier in squad, CAWCF at a fixed standard price.

## JUSTIFICATION:

filled munition with a training safe version to reduce the hazard of troop exposure carcinogenic HC smoke. FY 98/99 This is a training unique item; not used in combat. This grenade is urgently needed to replace the current M8 HC procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1994

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: GRENADE HAND SMOKE TNG M83

PCN:P02QM1POC45 DATE: FEBRUARY 1997 NSN = 1330-01-380-0287 (R69300)

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

	FY 96 (QTY		348179)	FY 97 (QTY		122217)	FY 98 (QTY		236891)	FY 99 (QTY		206924)
ELEMENT OF COST QM: EACH	ΔTΥ	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	YTQ	UNIT	TOTAL
HARDWARE  1.LOAD, ASSEMBLE, AND PACK (LAP) 2.NITROCELLULOSE WW GR D	348179	30.53	10628	122217	27.73	3389	236891	33.39	7911!	206924	34.09	7055
SUBTOTAL			10628			3389			7912			7056
PRODUCTION SUPPORT :  1.PRODUCTION ENGINEERING 2.QUALITY ASSURANCE 3.ACCEPTANCE TESTING 4.INTERIM TRANSPORTATION 5.INDUSTRIAL STOCK SUPPORT 6.CAWCF GAIN/LOSS SURCHARG SUBTOTAL	MEERING NETING TING ATATION SURCHARGE		329 152 122 40 453 959			155 155 37 133 413			809 209 2757 279			721 818 81 51 51 640
TOTAL P-1 LINE ITEM! 33.28 11587!	*********	33.28	11587	34.07 4164	34.07	4164!	38.70 9168	******** 38.70	· · *   - · - ·	9.118 15.68	39.51	8176

P-1 ITEM NO. 40 PAGE NO. 14 of 17

EXHIBIT P-5

PCN PO2QM1DOD42

A DODO TATALON / DISCOURS A CHILITAN									
AFFROFILITION BUDGEL ACLIVILI			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1330-01-380-0287	11-380-0	287	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	1. AMMUNIT	LON	GRENAD	GRENADE HAND SMOKE TNG M83	(E TNG M83		1	(E69300)	(00)
COLUNE ITEM/ FISCAL YEAR CONTRACTOR &	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAII
1. LOAD, ASSEMBLE, AND PACK (LAP)	! ! ! ! !		1 1 1 1 1 1 1 1 1						:
	SS/FP	IOC	MAR 96	APR 97	348179	30.53			
	SS/FP	IOC	MAR 97	APR 98	122217	27.73	YES	NO	
	SS/FP	IOC	MAR 98	APR 99	236891	33.39	YES	NO	
FY 1999 PINE BLUFF, ARSENAL SE	SS/FP	IOC	MAR 99	APR 00	206924	34.09			
2. NITROCELLULOSE WW GR D									
!	SS/CPAF	IOC	JAN 98	MAR 99	261	4.04	YES	NO	
FY 1999 HERCULES AEROSPACE SE RADFORD, VA	SS/CPAF	IOC	JAN 99	MAR 00	228	4.12			

P-1 ITEM NO. 40

PAGE NO. 15 of 17

EXHIBIT P-5A

DATE FEBRUARY 1997 DO COMP (AR) 1003	M83	FISCAL YEAR	DAR YEAR 99	JUN JUL AUG SEP OCT NOV DEC JAN FEB HAR APR HAY JUN JUL AUG SER	00.00		30 12	40 40 40 37	00 0	0.00	30 12	40 40 40 40 40 370.00	207							30 12 40 40 40 40 40 37 207	REMARKS			OUIANTIAL MI VITTANIO	
ION SCHEDULE (EXHIBIT P-21) [P-1 ITEM NOMFINIATIBE	~!\	FISCAL	CALENDAR YEAR 97 CALENDAR	NOV DEC JAN PEB NAR AFR NAY JUR JUL AUG SEP OCT NOV DEC JAN FEB NAR AFR HAY			40040			40 40 40 19	07 07									40 40 40 40 19   40 40 40	PRODUCTION RATES RACHEN TO PROCUREMENT LEAD TIME	7 00 268 8 5 1 CCT 1 CCT 1 ROD. AFTER 1 CCT 1 CCT 2 AFTER 1 CCT 2 CCT 2 CCT 2 CCT 3		REORDER 6 6 13 19	P-1 LINE NO. 40 PAGE NO. 16 OF 1
PRODUCTION APPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1		M :	FY FY FY FY 96 96	A 0.00 0.00 C	K A 348	1 K A 122 0.00 122	K A 207 0.00	ALL D.00 0.00 0.00 0.00	348 169	122	ALL 237 0.00 237	70.00							TOTAL MONTHLY 169 745	FAC MANUFACTURER NAME PRODUCTI	DINE RIPE ARG AD	מסוסה אונו לסווי ייסום חודי		

भूषाक ना.	E69300		- t-	14. J&	0	00.0	00.0	00.00	0.00		0.00	0.00	00.0	0.00	0.00													0.00						NUS
RECOTREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	À			JUN JUL ANG FF																						-							The Trionion	IN THOUSANDS
REÇUTREMEN DD-COMP (2		!	YEAR 02	MAR AFR MAY																	  -												OHANTTO	
1997		AL YEAR 02	CALENDAR YEAR	DEC JAN FEB																														
FEBRUARY		FISCAL		G SEP OCT NOV							1							1											s					
DATE	TURE TNG M83		01	MAY JUN JUL AUG									+							+					+				REMARKS					1
	ENCLA SMOKE	ıR 01	CALENDAR YEAR	FEB MAR APR										+	1		1		1					†	-				AD TIME	TOTAL	10	1	19	
	P-I ITEM NOM GRENADE HAND	ISCAL YEA	CNT	OCT NOV DEC JAN																									REMENT LEAD	PRIOR AFTER			6 13	OM LIDER
(EXHIBIT	4	14		JUL AUG SEP OC					40 407.0				-	1	40/04					-							0 404		PROCUE	PRIOR	9		REORDER 6	07
ULE (EX				APR MAY JUN					40 40 40						40 40 40				+								0 0 0 0	7.0	8 to	D-DAY	T	INI	REOF	
SCHED	Y 1. AMMUNITION	YEAK 00		C JAN FEB JAR							<u> </u>																		PRODUCTION RATES NOWTHS TO	AXIMUM AFTER 1	0.007			
PRODUCTION	ITY 1. AM		66	OCT NOV DEC	8	0.0	00	00	07		200	00 6	000	100	+	+	1							+	+		T.		DUCTION	1-8-5 N	3.			
PRO	ARMY/ACTIV	ACCEP.	1	4 00 00 0	0.0	348 0.00	122 0.00	237	207 0.00 207	000	24000000	122 0 00	227 0 00	207 00 00 200		1	1	+	+				+	+			700	<b>⊸</b> i	Г		20.00			
PFAPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	PROGRAM QTY	מם מם מם	F I F I			122	237	72	+		122	750		7		+							1	-		TOTAL MONTHLY	CTION	MANUFACTURER NAME	OCATION	IFF AKS, AK			
PRIATION/	JREMENT AM	NEG.	۲>	F I	K A 0.00		КА	K A	K A	00 0		┿	71.4	אַניי	77T												TOTAL	PRODU	MANUE	J & L	FINE BLUFF AKS,			
APPRO	PROCI	FAC			,×.	11			٠٠, چ																				FAC	g	-  			

											DATE			
ш	BUDGET ITEM JUSTIFICATION SHEET	LI	EM	JUS	rif]	CAT	NOI	SHE	ET			FEBRUARY 1997	7 1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	ITY					P-1 I	P-1 ITEM NOMENCLATURE	VCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	JUNITION, AR	MY/ACTI	VITY 1.	AMMUNITION	ITION		SIGNAL	SIGNALS ALL TYPES	PES					(E46900)
	FY	96	FY	97	FY	86	FY	66	FY	00	FY	01	01 02 FY	-y 03
QUANTITY	-0-	. 1	-0-		Ĩ	-0-	-0-		-0-		-0-		)	-0-/-0-
COST (In Millions) \$	\$ 17.8	۶ د	1.3	, , , , , , , , , , , , , , , , , , ,	\$ 7.	7.9	8	8.4	\$ 14.3		\$ 15.7		v,	7./7.

This budget line includes Signals ALL TYPES.

P-1 SHOPPING LIST ITEM NO. 41 PAGE NO. 1 of 17

DD Form 2454, JUN 86

Page of Pages Exhibit P-40

VO. 41 PAGE NO.

		_									 	***************************************	_
			TOTAL	0	455	1127	2156	1125	587	2919		8369	
JDS)	7.6	66	UNIT	00.0	42.08	48.35	41.87	42.74	30.92	417.00			P-5
THOUSANDS	FEBRUARY 1997		QTY	0	11	23	52	56	19	7			EXHIBI'T
(DOLLARS IN	DATE		TOTAL	0	0	0	1803	0	781	5278		7862	
		86	UNIT	00.00	00.00	0.00	41.01	0.00	30.29	406.00			OF 17
ANALYSIS		FY	QTY	0	0	0	44	0	56	13			PAGE NO. 2
ANAL	(E46900)		TOTAL	0	320	<b>o</b> .	355	0	537	69		1281	d
	SIGNALS ALL TYPES (E46900)	97	UNIT	00.0	38.79	00.0	36.82	00.00	20.69	00.0			1 NO. 41
N CC	SIGNALS	FY	QTY	0	∞	0	10	0	56	0			P-1 ITEM NO.
TIIC	MUNITION		TOTAL	5929	0	1750	2653	1507	0	8933		17802	
AMMUNITION COST	ACTIVITY:	96	UNIT	91.00	0.00	43.76	44.17	43.76-	0.00	388.39			
A	r ACTIVIT	FY	QTY	33	0	40	9	34	0	23			
	APPROPRIATION BUDGET ACTIVITY:		SSN/ITEM:	(E44600) SIGNAL KIT PERSONNEL DISTRESS RED FP	(E45800) SIGNAL SMOKE Æ ILLUM MK124 MOD 0	(E46500) SIGNAL ILLUM GND WS CLUSTER M159	(E46800) SIG ILLUM GND WS PARA M127A1	(E47000) SIGNAL ILLUM GND CLUSTER M125A1	(E49200) FLARE SURFACE TRIP M49 SERIES	(E62900) SMOKE POT PRACTICE M8		TOTAL P-1 LINE ITEM	DD FORM 2448, AUG 89

CHERT
JUSTIFICATION
ITEM
BUDGET

FEBRUARY 1997 DATE

A D D D D D D D T A T T O N .	A D D B C D D T A T T C L L L L L L L L L L L L L L L L L											100	
MOTIBIN TOWN	BODGET ACITATII					P-1 ITEM NOMENCLATURE	MENCL.	ATURE					
PROCUREMENT AM	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	ACTIVITY 1. A	AMMUNI	TION		STCHAL WITH D	נאס מים	TIME TO THE	į	1			
			-		t	CICHAR MIL FERSONNEL DISTRESS RED FP	NOCK T	NEL DISTRE	SS KE	U FP			(E44600)
	FY 96	FY 9	24	FY	86	FY 90		2			,		
			1				-	r. 1		FY	0.1	01 02 FY	03
QUANTITY	33	c		ć									
(Thousands)	)	) )		-0-		-0-		-0-		26		-0-	-0-/-0-
			+		1								
COST									_				
(In Millions)	\$ 3.0 \$	-0- \$	₩	-0-	₩	-0-	٧x	-0-	₩	1.7		0-/-0- \$	0 - /
			1					İ			-		

#### DESCRIPTION:

Configured in a plastic penetration through foliage. Firing is accomplished through activation of a firing pin contained in the projector. downed air crews for surface-to-air distress signalling. This item will be procured through the CAWCF at a fixed A light intensity of 3,500 candlepower is achieved for 7 seconds at approximately 500 feet. This item is used by bandoleer, this signal is approximately 2.5 inches in length and contains a rocket assist motor for maximum This kit consists of one hand-held projector and 7 aluminum-bodied red illuminant signals. standard price.

# JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

# TYPE CLASSIFICATION DATE:

None, this item is procured as a component of the air crew survival vest, SRU-21/P, which was type classified standard in March 1974. Page of **Exhibit** 

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1370-00-490-7362 (E44600) PCN:P02QM1DOC4Z

> P-1 ITEM NOMENCLATURE: SIGNAL KIT PERSONNEL DISTRESS RED FP APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

	FY 96 (QTY		32516) F	FY 97 (QTY		) F	FY 98 (QTY		(H	) FY 99 (QTY		
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	ŶŢŎ	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL
HARDWARE  1.COMPLETE ROUND	32516	73.27	2382									
SUBTOTAL			2382									
PRODUCTION SUPPORT									<u> </u>   			
1.QUALITY ASSURANCE 2.ACCEPTANCE TESTING 3.INTERIM TRANSPORTATION 4.INDUSTRIAL STOCK SUPPORT 5.CAWCF GAIN/LOSS SURCHARGE	: NG TATION SUPPORT SURCHARGE		27 27 102 436			-, -, -, -, -, -, -, -						
SUBTOTAL			577									
**************************************	***********	91.00	*	********	****		****	* * * * * * * *	* * * * * * * *	**************************************	* * * * *	* * *

4 of 17 PAGE NO. 41 P-1 ITEM NO.

EXHIBIT P-5

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING	,	DATE	DATE: FEBRUARY 1997	8Y 1997	
APPROPRIATION/BUDGET ACTIVITY	ST ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1370-00-490-7362	00-490-73	362	:
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION	FION, ARMY/ACTIVIS	ry 1. AMMUNIT	CON	SIGNAL	KIT PERSON	SIGNAL KIT PERSONNEL DISTRESS RED FP	RED FP		(E44600)	(00
LINE ITEM/ FISCAL YEAR CC	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES WHEN AVAIL
1. COMPLETE ROUND FY 1996 SECUR	OMPLETE ROUND FY 1996 SECURITY SIGNALS INC CORDOVA, TN	C/FP	10C	JUL 96	76 NUC	32516	73.27	1		: :
REMARKS:	t 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ;	1 8 6 1 1 1 1 1			 		1	1	:

DATE: FEBRUARY 1997

5 of 17 PAGE NO. 41 P-1 ITEM NO.

EXHIBIT P-5A

ROGRAM QTY		שנו ויסו וידעדידיסות/ הסתקתו שכ	ACTIVITY						P-1 I	I ITEM NOM	NOMENCLATURE		FEBRUARI	ANI 1337		מטירטנ	DD-COMP (AR) 1042	,,
Fig. 20   Fig.	<b>⋖</b>	MMUNITION, A	NRMY/ACT	IVITY	1. AMMU	NOLLI			SIGNA	L KIT PE	RSONNEL	DISTRESS	Ŀ					E44
Fig.   Fig.		PROGRAM QT	ACCEP.		SCAL YE	AK 97			FISCA	L YEAR	86			ISCAL	1			
97 7 98 99 96 96 96 96 96 97 97 98 99 96 96 96 97 98 99 96 96 96 98 99 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 96 96 98 99 96 96 96 96 98 99 96 96 96 96 98 99 96 96 96 98 99 96 96 96 96 98 99 96 96 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 96 98 99 96 96 96 96 98 99 96 96 96 96 96 96 96 96 96 96 96 96			1 oct			LENDAR YEAR	97			CALENDA	R YEAR	86			CALENDAR		6	
0.00 0.00	<u> ۲</u> ۱۶	FY FY 07 08	70	$\neg$	DEC	N FEB MAR	MAY JUN	AUG	LX		A P.R	35	SEP	NOV.	-	ž	NO.5	AUG
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	श		8 0	0.00				-	Ī				+	+	1		+	_
0.00  1.00		0	0.00	33.0			2	20 20	2				1	+	1		+	
D.00 D.00 D.00 D.00 D.00 D.00 D.00 D.00		0.00	0.00	0.00					0000		+		+	+			+	
0.00 0			0.00	0.00									+	+	+		1	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		0.0	0.00	0.00														
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 1.		- 6		†													
0.00 0.00	-,I -	000	00.00	00.00		+		1						+				
D.00   0.00 0.00 0.00   0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00 0.00 0.00   0.00	•1			0000	+			1	1	+		#	+	+	-			1
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		00 0	000	00.0				-	Ŧ	+		1	+		1			+
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		9		00.9	+			+		+	+		+	1	  -			+
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	ı				+			-		+			+	+				
0.00 0.00 0.00 0.00 33.0 0.00 0					+					-			+				+	
0.00 33.0 0.00 0.00 0.00 0.00 0.00 0.00 6.00 0.00 6.00 0.39.0 13.06.06.06.06.06.06.0		0.00	0.00	0.00	-					-			+	+				
6.00 0.00 0.00 6	~	33.0	00.0	33.0			3.06	0.90.90	0.90.9					-				+
6.00 0.00 0.00		00.0	0.00	0.00									 				-	
6.00 6.00 6.00		p.00	0.00	0.00			_											
0.00 39.0		6.0	9.0	6.00														
0.00 39.0			1	1														
0.00 39.0			1	1	+				1	-								
0.00 39.0	- 1		1		+	#			7									
0.00 39.0			1	-	+				7	+								
0.00 39.0	- 1		$\downarrow$	1	+								1					
0.00 39.0	- 1		1	7	+				1				+					
0.00 39.0	- 1			1	+			1	#	+			$\frac{1}{1}$	1				
0.00 39.0	-	-	1	1	+	#		-	7	+			+	+				
0.00 39.0	1			1	+	#							+	1			+	
0.00 39.0	1		<u> </u>		+				+	+			-	+			-	
0.00 39.0	1			_	-				F				-	+		+	+	
	F×.	DUCTION	0.00	39.0			1 .	06.06.08	0.90.0								+	
	ابي	LOCATION		INIMUM UST. 1.	8-5 MAXII	TUM AFTER D	-DAY	PRIO	N LEADTIN	38.	TOTA1.							
MINIMUM AFTER D-DAY AFTER D-DAY PRIOR AFTER AFTER AFTER AFTER	训	IY SIGNALS, TI		- 1		- 1	_	8	1 00	۳,	AFTER 1 0	៦						
N MINIMUM HATER D-DAY AND SUST. 1-8-5 MAXIMUM AFTER D-DAY PRIOR AFTER TO TO TO TO TO TO TO TO TO TO TO TO TO		SELECTED	1	- 1			LINI			10	16							
N MINIMUM 1.8-5 MAXIMUM AFTER D-DAY 1.50 3.00 6.00 0 1.50 3.00 6.00 0 1.50 3.00 6.00 0 1.50 3.00 6.00 0 1.50 3.00 6.00 0 1.50 1.50 3.00 6.00 6.00 0 1.50 3.00 6.00 6.00 6.00 6.00 6.00 6.00 6.0	1		+		-	-	REOR		ي ا	10	16					i i	į	
NITIAL     PEORDER   PEOR	J						]	]	1	,	,					OUAN'I.	L NI AL	HOUSAN

lol,	009	٦٩	ا	-1~	00	00.0	00.0	00.0	00.0		0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00																	SS
REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E44600		Γ	SEP																													T						THOUSANDS
rrol.				AUG																																			
CON 109				Jul.							L																					Τ		]					
(AR)				¥ 5				L																										]					Z
IREMI			02	ž	$\perp$				1		L																											Ė	
REQU DD-C				APR	$\perp$	$\perp$	$\perp$	_	L			L	L																									11 411	X.I.T.I.N
		İ	CALENDAR YEAR	ž	_	$\perp$	┸		_	_	L	L											$\perp$	$\perp$		$\perp$	1	L	Ш			$\perp$						C	7
		4R 2	ENDAR	JAN FEB	_	4	╀	ļ.,	L	L	L	L		L	_	Ш			_					_	$\perp$	1			Ш		_								
7		YEAR 02	3		$\bot$	Ļ	$\perp$	<u> </u>	┞	Ļ	ļ	_							_	4				1	1	$\perp$	$\perp$	L	Ц	_	$\perp$	$\perp$							
1997		AL		DEC	$oldsymbol{\perp}$	1	-	$\vdash$	_	_	_	L	L					4	_		_	$\perp$	4	$\perp$	4	$\perp$	$\downarrow$			$\perp$	┸	1							
RY		FISCAL		NO E	+-	╀	╀	┞	-	-	-	L					_	$\dashv$		$\dashv$	_		4	4	_	$\perp$	╄	_	Ц	$\downarrow$	$\perp$	$\perp$	Ļ						
RUA	F.P	ᅜ	-	50	+	1	╀	H	┝	ļ.,	<u> </u>	L	Н	_		Ц	4		_	4	-		$\dashv$	+	$\perp$	<u> </u>	$\perp$		Н	4	+	╄	ļ						
DATE FEBRUARY	P-I ITEM NOMENCLATURE SIGNAL KIT PERSONNEL DISTRESS RED FP			JG SEP	+	+	+	$\vdash$	$\vdash$	$\vdash$	-	H	Н		_	Н	4	4	4	4	-	$\dashv$	4	+	+	+	+	$\vdash \mid$	$\sqcup$	+	+	+	$\vdash$	KS					
JAT.	SS			J. VAG	+	+	+	-	╁	$\vdash$	$\vdash$	$\vdash$		_	Н	$\Box$	$\dashv$	-	_	4	-	4	$\dashv$	+	+	+	+-	Н	$\vdash \downarrow$	4	+	4-	Н	REMARKS					
$\dashv$	TRE			วณ จณา	+-	+	$\vdash$	$\vdash$	-	-	$\vdash$	$\vdash$	Н	Щ	_		$\dashv$	-	$\dashv$	$\dashv$	4	-	+	+	+	+	+-	Н	$\vdash$	+	4	+	$\dashv$	I H					
	RE DIS		01	MAY Ji	+	╁	╁	┢	┝	┝		<u> </u>	Н	-	_		$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	╁	+	╁	╀	Н	$\dashv$	+	╀	╄	H	Γ	Τ	ξ		T	
	ITEM NOMENCLATURE MAL KIT PERSONNEL DI			APR M	╁	$\vdash$	$\vdash$	┼-	-	-	H	Н	Н		-	-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+-	╀	╀	Н	$\dashv$	+	+	╀	Н			7. T	16	16	
	CLA	01	ž	A A	+	╁╴	-	┢	H	H	H	Н	$\dashv$	-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	┪	$\dashv$	$\dashv$	$\dashv$	+	+	+	+	╀	Н	$\dashv$	+	+	+	Н	TML		AFTER 1			П
	MEN	0	CALENDAR YEAR	FEB X	╁	T	H	H	H	H	H	-	$\dashv$		$\dashv$	$\dashv$	$\dashv$	$\dashv$	1	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	╁	+-	Н	-	+	+	╀	Н	TEAN TIME					1
	N F	EAR	ALEN	JAN	$\dagger$	$\vdash$		<u> </u>	H	П					$\dashv$	$\dashv$	$\dashv$	$\dashv$	┪	$\dashv$	1	十	+	╅	+	╁	+	Н	$\dashv$	+	╁	╁	Н	6	¥q.	PROD	10	101	
	ΣZ	۲ آ	Ť	230	T		T	T						┪	一	$\dashv$	1	+	1	7	$\dashv$	+	十	+	╁	╁	H	H	$\dashv$	+	+	╁	Н	E	: बा	m/ f .		+	┨╂
	SNA L	3CA		NON	T	T	T		П	П	П				٦	1	7	7	1	7	7	1	+	$\dagger$	†	$\dagger$	┢	H	$\dashv$	+	t	+	Н	MEN		87.0	9	ب ا	1
À,	SIG	FI		Ŕ					П				$\exists$	╗		一	7	1	1	1	1	1	$\top$	†	†	T	T	П	$\dashv$	$\dagger$	+	t	Н	1101	Z Z	αF		╁╌	11
티				SEP																		7	1	1	T	T	T	П	$\dashv$		Ť	T	П		ADMIN LEADTINE	82	9	9	11
(EXHIBIT				Puc.	L																		T	T		Π		П		T	T		П	٩	1		ΔI	띪	
X	j			JOE	Ļ					Ц			_	_																							TNTTTAL.	REORDER	
띄	ı		8	NO.		ot			Ц	Ц			_	_		$\perp$	4	4	4		_		_	$\perp$	┸	$\perp$	L	Ц		$\perp$							2	E E	
띰				PR NAY	_			Ш	Ц	Ц	Ц		_	4	4	4	4	4	4	$\perp$	_	4	1	_	$\downarrow$	$\perp$	L	Ц		1	$\perp$	L	Ц	Г	DAY			_	1
			<u>_</u>	~ ]	-	Н	Н	Н	$\vdash$	Н	Н	4	-	4	4	4	4	-	4	4	4	4	4	+	$\downarrow$	$\perp$	↓	Щ	4	_	$\bot$	_	Ц	5 12 12 12 12 12 12 12 12 12 12 12 12 12	7 D D				
SCHEDO	S	00	CALENDAR YEAR	FEB MAR	$\vdash$	Н	Н	Н	Н	$\dashv$	$\dashv$	-	4	$\dashv$	힉	$\dashv$	4	4	4	+	$\dashv$	ၧ	+	+	+	╀	╀	$\sqcup$	4	_	+	╀	0.	HON	AFTE	0	9		] [
ij		AR	LEND	JAN	Н	Н	Н	Н	$\vdash$	Н		$\dashv$	$\dashv$	$\dashv$	힁	$\dashv$	$\dashv$	+	+	+	$\dashv$	03:0	+	+	╀	╀	╀	H	+	+	+	╀	8	Ę.	3 5	8	6.00		
	Ę.	ΧF		200		Н	Н	$\dashv$	H	H		┪	$\dashv$	$\dashv$	ᆔ	$\dashv$	$\dashv$	+	+	+	+	က	+	+	╁	╁	+-	Н	+	+	╀	╀	e	70		۳	9		
낆	7	CAL			H	Н	Н	Н	Н	Н	-	$\dashv$	$\dashv$	$\dashv$	┪	$\dashv$	+	$\dashv$	+	┪	┪	$\dashv$	+	+	╁	+-	$\vdash$	Н	+	+	╁	╁	Н	2	<u>.</u>	3.00	3.00	T	1
IJ	/ 1. AMMUNITION	TR	6	NOV L		Н	Н		Н	$\dashv$	$\dashv$	7	+	$\dashv$	+	┪	┪	$\dashv$	+	$\dagger$	+	$\dashv$	+	$\dagger$	╁	╁	$\vdash$	Н	$\dashv$	+	+	+	Н	Ē	֓֟֟֓֓֓֓֓֓֓֓֓֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֓֓֓֓	٣	1 1		1
PRODUCTION	ĮĮ.	BAL	_	_	0.00	0.00	00	0.00	8	H	8	9	힑	8	9.00	7	7	8	00.00	ब्र	히	히	+	$\dagger$	+	t	H	H	$\dashv$	$\dagger$	+	$\dagger$	8		FIND THE TABLE SEAST IN AFTER D-	5.	1.50		11
8	ŢŢ.				9	9	9	0	0	-1	9	흳	흳	흿	ف	$\dashv$	4	희	9	힞	흿	9.00	4	4	4	╄	-	Ц	4	_	$\bot$	1	ف	000		7			
Δ, F.	:	ACCEP. PRIOR	ဥ င်	66	0.00	33.0	0.00 0.00	00.0	0.00 0.00		0.00 0.00	0.00	0.00 0.00	0.00	0.0	-	ı	0.00	33.0	0.00	0.00 0.00	9.0		۱									33.0 6.00				П		11
11			1				٦	J	_	T	٦	키	٦			7	7	7	7	7	_		†	$\dagger$	+	T	$\vdash$	H	+	+	$\dagger$	T	f		NAME	z			
[4		ξŏ	ļ	FY 69	-	Ц			0.0		_	4	4	ᅵ	0. 9	1	4	4	4	1	↲	9.8	4	1	1	Ļ	L	Ц	4	_	┸		Ц		z xz	S.	1		Н
L L L		AM		FY				D.00		·	[			8															_				Ez		TION I	N.	圓		
Ĭ		PROGRAM QTY		FY 97			0.00		T	Ī	$\sqcap$	1	00.0					T	T	0.0	T	T	T	T	Γ	Γ		П		T	Τ	Г	PRODUCTION	1	MANUFACTURER & LOCATION	ĭ	TO BE SELECTED		
N /I	₩.	PR	H	FY 96P		33.0	٩		$\dashv$	1	9.00	9	위	$\dashv$	+	$\dashv$	+	8	33.0	9	+	+	+	+	+	$\dagger$	T	$\forall$	+	+	+	t	33		를 달러	III	SE		
TT.				4 6	ام	8	4	4	$\dashv$	$\dashv$	힉	힉	4	4	4	4	- 1	- 1	_	+	+	+	+	+	+	$\vdash$	$\vdash$	ert	$\dashv$	+	+	╀	F.R.		ĀĀ. ⊗	18	H		
O T A		លកា	∝>	<b>&gt;</b>	A	A	A	A	Æ		AF.	Æ	ΑF	ΑF	ΑF			ALL	F	ACI.	빎	ALL												Ľ		SE	티	$\perp$	ļļ
PF	PROCUREMENT AMMUNITION, ARMY/ACTIVITY	Ď		+	×	×	×	×	×	$\exists$	¥	됙	¥		¥	7	7	7	7	+	7	$\exists$	7	Ŧ	Ŧ	F	F	H	干	Ŧ	F	F		,	ي <sub>.</sub> ري		$  \  $		
ă	절	FAC			H	႕		i		- 1		-	- [		ᅰ			- 1	-		-	- 1				1	1	lĺ	-		1	1		[	NO.	-	~		

щ	BUDGET ITEM	II		JUS	TIFI	CAT	JUSTIFICATION SHEET	SHE)	E 1		DATE		,	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIVI	ľŢŸ					P-1 ITEN	1 NOMEN	P-1 ITEM NOMENCLATURE			FEBRUARY 1997	1881	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	MUNITION, ARM	N/ACTI	VITY 1.	AMMUN	AMMUNITION		SIGNAL I	LLUM G	SIGNAL ILLUM GND WS PARA M127A1	M127A				(E46800)
	FY 9	96	FY	97	FY	98	ᅜ	66	FY	00	γd	0.1	01 03 FY	٤٠ ٨٠
QUANTITY (Thousands)	09		10		44		52		67			•	7	0 - / -
COST (In Millions)	\$ 2.7	w	4.		\$ 1.8		\$ 2.2		\$ 2.9		\$ 2.9		₩.	-0-/-0-

The base of the launching tube contains This signal consists of a parachute suspended illuminant assembly, and a rocket motor propulsion assembly contained Initiation charge, propelling charge, and expelling charge consist of black powder. The length is 10.16 inches and diameter is 1.67 inches. This signal is packed 36 each per wooden box. This item is Code A, approved for service use. This item will be procured through the CAWCF at a fixed standard price. Stabilizing fins on the rocket are folded parallel to the axis of the signal. The burning time is 40 seconds and candlepower is 125,000. Pyrotechnic charge is illuminant composition. in a hand-held aluminum launching tube, deployed by the individual soldier. a primer and an initiating charge.

# JUSTIFICATION:

This is a training standard item used in both training and combat. FY 98/99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1961

RCS: DD-COMP(AR)-1092

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

DATE: FEBRUARY 1997 NSN = 1370-01-341-5159 (E46800)

PCN:P02QM1DOC4Z

P-1 ITEM NOMENCLATURE: SIGNAL ILLUM GND WS PARA M127A1 APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION

								TU/PTH INIT				
	FY 96 (QTY		60062) I	FY 97 (QTY	<b>&gt;</b>	9640) FY 98	FY 98 (QTY	Į,	43968)	FY 99 (QTY	7	51498)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	YTQ	UNIT	TOTAL	QTY	LIND	TOTAL
HARDWARE												
1.LOAD, ASSEMBLE, AND PACK (LAP) 2.BOX METAL M548	60062 2529	33.94 18.12	2038	9640 406	30.53 15.12	294	43968 1852	34.51 20.89	1517	51498 2169	35.23 21.33	1814 46
SUBTOTAL			2084			300			1556			1860
PRODUCTION SUPPORT												
1. PRODUCTION ENGIN 2. OUALITY ASSURANCE	<u>ENGI</u> NEERING URANCE		65.			14!			159			190
шĸ	NG		24			mm			1184			21 13
5.INDUSTRIAL STOCK 6.CAWCF GAIN/LOSS	STOCK SUPPORT //LOSS SURCHARGE		381			35			55.			67
SUBTOTAL			- 1695			- 55			247			296
TOTAL P-1 LINE ITEM! 44.17 2653	*********	44.17		**************************************	36.82	********* 355!	********	******* 41.01	···* -··-	****	4****	2156

P-1 ITEM NO. 41 PAGE NO. 9 of 17

EXHIBIT P-5

Ξ

PCN PO2QM1DOD4Z

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROCUREMENT HISTORY & PLANNING	HISTORY	& PLANNING		DATE	DATE: FEBRUARY 1997	3Y 1997	7
APPROPRIATION/BUDGET ACTIVITY			P-1 IT	P-1 ITEM NOMENCLATURE	TURE	NSN = 1370-0	1370-01-341-5159	651	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNIT	TY 1. AMMUNI	FION	SIGNAL	ILLUM GND	SIGNAL ILLUM GND WS PARA M127A1	1		(E46800)	(00)
LINE ITEM/ FISCAL YEAR CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	JE YES WHEN AVATE
1. LOAD, ASSEMBLE, AND PACK (LAP)		# { { { } } }		 					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY 1996 SECURITY SIGNALS INC	C/FP	IOC	AUG 96	AUG 97	60062	33.94			
FY 1997 TBS FY 1998 TBS FY 1999 TBS	C/FP C/FP C/FP	10C 10C 10C	AUG 97 MAR 98 MAR 99	AUG 98 MAR 99 MAR 00	9645 43968 51498	30.53 34.51 35.23	YES	ONO	
2. BOX METAL M548									
FY 1996 CONCO INC	C/FP	IOC	36 NOC	DEC 96	2529	18.12			
FY 1997 TBS FY 1998 TBS FY 1999 TBS	C/FP C/FP C/FP	10C 10C 10C	MAR 97 MAR 98 MAR 99	JAN 98 JAN 99 JAN 00	407 1852 2169	15.12 20.89 21.33	YES	OON	
REMARKS:							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	

TBS - To Be Selected

PRODUCTION SCHEDULE (EXHIBIT P-21)	disol.	E46800		 < <sup>-</sup> -		00.00	0.00	0.00	0.00	52.0		0.00	0.00	00.00	3.00		0.00	0.00	0.00	0.00	4 00			0.00	0.00	0.00	00.0	59.0						0.84					SON
Control   Cont	1 S.N	E4			485	+	_		L	$\sqcup$		4	4	_	-	$\vdash$	$\perp$	_	-	1	_	_	ļ	_	_		_	_	$\sqcup$	_	$\downarrow$		_					;	SAI
Control   Cont	NTRO 9.2					+	_	$\vdash$	0	$\sqcup$	4	4	+	+	-	_	$\vdash$			_	L			<u> </u>	_		0		_	$\perp$	1	$\perp$	1	5					되
Consideration   Production   Central Difference   Part	S CCI				_	+	-		۱ ۱	H	_	4	$\perp$	+	-	_	_	_	_	_	ļ.,			L	_	_	용	Н		4	$\bot$	$\sqcup$							
Consideration   Production   Central Difference   Part	MENT:					+	-	-	0	$\vdash \vdash$		4	1	+	-	_	_	_	_	_		<u> </u>	_	_	_	_	~	Н	4	4	1	$\perp \downarrow$							
Consideration   Production   Central Difference   Part	UIRE			99	ž	+-	ļ	-	0		_	$\dashv$	+	+	-	-	_	_	_	_	_				L		ı	Н	$\downarrow$	$\bot$	_		- 1	1 1				E	
CONSIDERATION AND ACCUTON SCHEDULE (EXHIBIT P - 21)   P-1	REQI DD-0	<u> </u>		۳.	_	+	-	-	1		_	$\dashv$	+	+	-	-	-	<u> </u>	L	0	-	_			_		4	Ш	4	$\perp$	-	-	- 1					, i	
PRODUCTION SCHEDULE (EXHIBIT P - 21)    CHARLYTON/HOUGER ACTIVITY   Part				R YEA		╁	┝	-		$\left  \cdot \right $	$\dashv$	$\dashv$	+	+	╀	├-	-	L	-		_						1	$\square$		+	+-	$\sqcup$		7					
PRODUCTION SCHEDULE (EXHIBIT P - 21)    CHARLYTON/HOUGER ACTIVITY   Part	<u> </u>		AR.	LEND	3	╁	╁	$\vdash$		Н	$\dashv$	$\dashv$	+	+	╀	├	L	$\vdash$	_	-	H	Н			_	Н		$\sqcup$	+	+	-	H	-	41					
PRODUCTION SCHEDULE (EXHIBIT P 2.1)    CHARLEST P 2.1)   CHARLEST	97			5		+	╁	╁╌	H	H		+	+	+	╀	$\vdash$	┝	-	-	H	-	-					_	Н	+	+	+	H		-{					
CHARLING ON PRODUCET ACTIVITY   PARTICIPATION   PARTICIPATIO	19		CAL		_	╁	+-	╁┈	$\vdash$	Н	$\dashv$	$\dashv$	+	╁	┢	-	_	-	$\vdash$	-	-	Н	-		_		_	$\dashv$	+	+	╁	H	+	$\{  $					$\prod$
CHARLING ON PRODUCET ACTIVITY   PARTICIPATION   PARTICIPATIO	ARY		SI	Ì		+	╁╌	$\vdash$		H	$\dashv$	$\dashv$	+	+	╁╴	╁╴	-	-		$\vdash$	H	Н		$\dashv$	-			$\vdash$	+	+	+	$\vdash$		$\parallel \parallel$					
CURRENT ON BUDGET ACTUALY   PRODUCTION SCHEDULE (EXHIBIT P-21)   PRODUCTION SCHEDULE (EXHIBIT P-21)	BRU			1		╁	$\vdash$	<del>                                     </del>		$\vdash$	+	$\dashv$	+	+	┼	$\vdash$	$\vdash$	$\vdash$	<u> </u>	Н	H	Н	$\dashv$			$\dashv$		-	+	+	+	H	+	-					
CURRENT ON BUDGET ACTUALY   PRODUCTION SCHEDULE (EXHIBIT P-21)   PRODUCTION SCHEDULE (EXHIBIT P-21)	FE	<sub></sub>			_	+	+	2	$\vdash$	H	$\dashv$	+	+	+	+	$\vdash$	$\vdash$	$\vdash$	-	Н	$\vdash$	Н	$\dashv$	$\dashv$	$\dashv$	01	$\dashv$	$\dashv$	+	+	H	$\dashv$	+=	KS KS					,
CHERRY ON BUDGET ACTIVITY   LANDHILLO   EXHIBIT   P-21)	DAT	27A		ĺ		t	$\vdash$	$\vdash$		H	$\dashv$	$\dashv$	+	+	$\vdash$	$\vdash$	-	$\vdash$	H	Н	Н	H	$\dashv$	$\dashv$	$\dashv$		$\dashv$	-	+	+	H	H	+	EMA					NGE N
Colored Fig. 19   Colored Fi		M		<sub>∞</sub>		+	$\vdash$		$\vdash$	H	$\dashv$	$\dashv$	+	$\dagger$		$\vdash$		Н	Н	H	Н	$\dashv$	-	$\dashv$	+	$\dashv$	$\dashv$	$\dashv$	+	+-	$\forall$	$\vdash$	+	۔ ا					٦ <b> </b>
Colored Fig. 19   Colored Fi		IRE V <b>ara</b>		10		十	T		$\vdash$	H	$\dashv$	十	+	$\dagger$	H	$\vdash$	$\vdash$	$\vdash$	$\vdash$	Н	H	$\forall$	$\dashv$	$\dashv$	-	$\dashv$	$\dashv$	+	+	+	H	$\vdash$	+	1		2			1,7
Colored Fig. 19   Colored Fi		ATU VS E		ı		T	$\vdash$	$\vdash$		H	1	+	+	╁	H	H		H	$\vdash$	Н	Н		$\dashv$	$\dashv$	-	$\dashv$	$\dashv$	$\dashv$	+	+	H	+	+	1	ы	SR 1	18	78	i la
Colored Fig. 19   Colored Fi	'	ACL.	_ &	EAR		T	Γ	Т	H		7	$\top$	$\dagger$	T	T			Н			Н	$\dashv$	7	$\dashv$	7	一		$\dashv$	+	+	H	$\dashv$	+	1		AFT			]  =
Colored Fig. 19   Colored Fi		ME!	~	NA PA	E	T	Г	П		$\Box$	$\neg$		T	T	T			П				$\exists$		$\neg$	┪	┪		$\dashv$	$\dagger$	$\dagger$	$\forall$		+		a	اء			
Colored Fig. 19   Colored Fi		NC LLG	EA	CALEN	N. Y	T	П				T	$\top$	T	T										$\exists$	$\dashv$	寸		$\dashv$	+	+-	Н		+		LEA	PROL	12	12	E N
Colored Fig. 19   Colored Fi	1	TEM L I	1					П			T	T	1										T	T	٦	ヿ		寸	1	T	$\Box$	$\dashv$	1			α,E-		╁	PAG
Colored Fig. 19   Colored Fi	1	l I GNA	SCA										T													1		7		T	П			1	EME ADT	1 SET	9	9	
Second Second		P- SI	FI			L		1 1																1									702		SE	őΕ:		1,,	1   3
Second Second	H									$\Box$		_	$\perp$	L	_						·														SE E	PRIO	_	L	
SCHEDULE   SCHEDULE	IB					L	20	Ц			$\downarrow$		$\perp$	$\perp$	L			Ц					$\Box$		2	_							20		1		7	E	ž
SCHEDULE   SCHEDULE	X					$oldsymbol{\perp}$	Ш			$\Box$	$\downarrow$	$\downarrow$	┸	L		Ц		Ш					_	_	$\Box$			$\perp$									T.T.	ORI	
S	巴			97		L	Ц	Ц	_	$\perp$	4	4	$\perp$	L	L		Ш					Ц	$\dashv$	_	┙	_		$\perp$	1	$\perp$			$oldsymbol{\perp}$	] [			¥	RE	1
S	回					igspace		Ц	4	4	4	4	_	1	L	Ц		Ц			Ц	$\sqcup$	_	4	4	_	4	4	1	$\bot$	Ц	$\perp$	1				П		,
Column	Įğl			_	_	$\vdash$	Н	Н	$\dashv$	+	+	+	+	╀	⊢	Н	Щ				$\dashv$	$\dashv$	_		$\dashv$	_	4	4	4	_	Н	$\perp$	-		5 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
Column	日日	8	97	R YEA	ξ.	Н		$\dashv$	$\dashv$	+	$\dashv$	+	+	╀	<u> </u>	Н				_	$\dashv$	$\dashv$	4	_	$\dashv$	-	$\dashv$	4	-	+	$\sqcup$	$\Box$	-		REAC	0	1 1		
SPRODUCTION   SPRODUCTION	ij	E	AR	LENDA		Н	$\dashv$	Н	$\dashv$	$\dashv$	+	+	+	╀	H	Н				_		$\dashv$	-	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-	+	+	Н	-	-		ES	0	8		
SECURITY NAME   PRODUCT	1 1	1	ΥE	5		Н	$\vdash$	$\dashv$	$\dashv$	$\dashv$	+	╁	+	╁		Н		$\dashv$			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	+	+	Н	$\dashv$	-	-	₹.	75 75	75		
SECURITY NAME   PRODUCT	[[]	₹.	:AL			Н	$\vdash$	$\dashv$	ᅱ	$\dashv$	+	╅	╁	╁		Н	Н	$\dashv$			$\dashv$	$\dashv$	$\dashv$	$\dashv$	┥	$\dashv$	$\dashv$	$\dashv$	+	╁	Н	$\dashv$	+-	1	Z T	18	8	$\top$	11
SECURITY NAME   PRODUCT	팅	-	SI.	96	t	Н	Н	$\dashv$	ᅥ	+	+	十	+	╁┈		Н	Н	$\dashv$	-	$\neg$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$		$\dashv$	+	┿	Н	+	+	-		- - - - -			
S	ğ	Ĭ		لـــا ا ا	-	8	0	힉	힉	ᅙ	+	els	de	18	8	Н	00	8	00	8	8	$\dashv$	$\dashv$	흥	힉	ᇹ	ᅙ	ᅙ	+	+		$\vdash \vdash$	15			]8	8		11
S							9	10	44	22	4	힉	عإد	٥	۳.		0	မ	<u>.</u>	4	4		_	ं	8	릐	48	23	1	┸	Ш	Ц		1	PR	200 200 200 200 200 200 200 200 200 200	9		
PROCUREMENT AMMUNITION, ARMY PROCUREMENT AMMUNITION, ARMY NO. W FY FY FY FY NO. W FY FY FY FY NO. W FY FY FY NO. W FY FY FY NO. W FO. W FY NO. W FO. W FY NO. W FY FY NO. W FY FY NO. W FY FY NO. W FY NO	딥		CCEP.	2 8			읭	00.	읭	읭		의	링		00.		.00	읭	9	읭	8			8	읭	읭	8	읭					8						11
APPROPRIATION/BUDGET ACPROCREMENT AMMUNITION, A R R FY FY		\ \frac{1}{2} \			1 I		9	의			+	악	믞	90	_	_	9	쒸	읙	읙		$\dashv$	+	읙	위	읙	읙		+	╁	H	H	+=	4	AME		E		
PROCUREMENT AMMUNITION PROCUREMENT AMMUNITION PROCUREMENT AMMUNITION NO. M R FY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY FY PY FY PY FY PY FY PY FY PY FY PY FY PY FY PY FY PY FY PY FY PY FY PY PY FY PY PY PY PY PY PY PY PY PY PY PY PY PY		کا <mark>۲</mark>	OTY		FY 99	Ш				25				1	3.0						0.							29				Ш					1 .1		
APPROPRIATION/BUDG PROCUREMENT AMMUNIT NO. M R FY FY NO. M R 96F 97 1 K A 0.00 1 K A 0.00 1 K A 0.00 K NS 0.00 K NS 0.00 K NS 0.00 K CG			Ψ		FY 98				임					0.						8							8			T			HEY	,	REI		NAL		
APPROPRIATION/B PROCUREMENT AMM PROCUREMENT AMM NO. W FY FY NO. W FY FY NO. W FY FY NO. W FY NO. W FO NO. W FY			)GR			1 1	$\dashv$	흥		$\top$	$\top$	+	15		Π		П	$\neg$	00	7		$\dashv$	$\dashv$	7	7	<u></u>	4		$\dagger$	T	П	H	NOM		CIT		SIG		
APPROPRIATION PROCUREMENT P NO. M R NO			PRC		7 E		0	릐	-	$\dashv$	4	9	5 5	╬	H	Н	0	9	ં	$\dashv$		$\dashv$	-	ᇹ	9	릐	$\dashv$	$\dashv$	+	+-	Н	Н	- A		JFA		Ž		
APPROPRIATION AND STATE OF STA		o F			F 96	اما	ဒ	$\sqcup$	_	4	4	علة	4	$\perp$	L		و. د	ن	Ц	_			_			_		_	$\perp$	$\downarrow$	$\sqcup$	Ц	_E	ŧ	ANI P	비ස	E		
APPROP PROCU NO. MO. M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		KIA1	ល កា	ı <b>∠:</b>	>	A		A	A	A				S	SN				ខ		ဗ္ဗ			ALL	ALL	ALL	ALL	ALL							<u>~</u>	P	SE	$\bot$	
NO.					1	×	¥	×	본	¥				1	×	Ħ	×	又	×	×	×	$\exists$	7	$\exists$	日	彐	$\exists$	$\exists$	Ŧ	Ŧ	Ħ		$\exists$		5	:			
		A P P	PAC	0			~		Н	ᅰ										ᅵ	ᅵᅱ														шž	1	12		]

	The state of the s										***************************************							DD-COM (AN) IN
PPROPR PROCURI	APPROPRIATION/BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACT	TIVIT	Y 1. AMMUNITION	NOI		Д, ОЛ	-1 ITE SIGNAL	P-1 ITEM NOMENCLATURE SIGNAL ILLUM GND WS PARA M127A1	NCLATUI	Σ «t	7A1						ш	E46800
	S PROGRAM OTY	P. BAL	SCAL YEAF	00		174	ISCAL	YEAR	01			FISCAL	AL YEAR 02	ec.				∕2 ر
NO.	ż	AS OF		CALENDAR YEAR	00			CALENDAR YEAR	YEAR	01			CALE	CALENDAR YEAR	02			
$\dagger$	FY FY FY FY		OCT NOV DEC JAN F	JAN FEB MAR APR	HAY JUN JUL	AUG SEP OC	OCT NOV DEC	C JAN FEB MAR APR	MAR APR MAY	Y JUN JUL	AUG SEP	OCT NOV	DEC	JAN FEB MAR	APR MAY	JUN JUL	AUG	SEP
	96 97 99	99 99		+		+	$\frac{1}{4}$	1	+	1	$\frac{1}{1}$				+	$\downarrow$	1	5
4		0.00		+		+	+	1	$\dagger$	1	$\int$		$\prod$		1		1	00.0
	0.0	00.00				+	+		+	+	$\int$						1	00.00
4 2	0 %	44 0 0 00		+		+	+		+	1			lacksquare	-	$\perp$		+	00.00
4 14	52.0	0.00 52.0		10 10	10 10 12	+	$\downarrow$			+	F				-		-	00.0
F					2	-	-								_		_	
X MS	0.00	0 0 0 0 0					-		+	<u> </u>						ļ	<u> </u>	00
. ×	0.00	0.00 0.00				F	-					F						00.00
×	00.00	0.00 0.00					-							F			_	00.00
	00.0	0.00 0.00													-			00.0
	3.00	0.00 3.00		3.0														0.00
	0.00	0.00 0.00					1		$\dashv$						1			0.00
	0.00	0.00 0.00				$\frac{1}{1}$	-		1	$\frac{1}{1}$					+			0.00
	0.00	0.00 00.00		$\frac{1}{1}$		+	$\frac{1}{4}$		+	1				$\parallel$		1		0.00
_	4.00	4.00 0.00				+	$\downarrow$			$\frac{1}{1}$		$\frac{1}{1}$		1				00.00
1 X	CG 4.00 (	0.00 4.00		0.		+	$\downarrow$	1		$\int$	1		$\frac{1}{1}$		-	$\pm$		0.00
				-		+	+		+				$\frac{1}{1}$		-		1	+
Ŧ	000			+		+	+	1		1	lacksquare	$\prod$		-	+	$\downarrow$	1	1
+		00.00		igg		+	+		+	1				1	+	1	#	00.00
	10.00	10 0 0 00				-	_		+					-				00.0
	0 87	48 0 0 00					L										1	
F	59 0	0 00 00 0		17 10	10 10 12				-						-	_	+	
-		2				-									-	L	1	-
						+			+									
+				1		+	+		+		1			+	+	+	1	+
+						-			+						+			+
1	TOTAL MONTHLY PRODUCTION	118 59.0		17 10	10 10 12	H							$\  \ $	H			1	00.0
			TON DAMES	OT SHITMON			PEMENT	TEAD TIME	PTME	REM	REMARKS							
FAC NO.	MANUFACTURER NAME		HISTORIAN ANTER PERSONAL AFTER P-DAY	AFTER D-DAY		ADMIN	ADMIN LEADTIME	מניים	TOTAL	 T								
1	TO BE SELECTED	9.00 30.00	0.00 75.00	0		1 oct	1 oct	PROD.	AFTER 1	OCT								
2	SECURITY SIGNALS, TN	9.00		0 0	INITIAL	9	9	12	18									
					REORDER	iR 6	9	12	18	 T				5	1014	;		
	_	-								-					_	_		IN THOUGANDS

		UNCLASSIFIED	IED.						
REPORTS CONTROL SYMBOL									
DD-COMP(AR) 1092	BUDGETI	TEM JUST	GET ITEM JUSTIFICATION SHEET	NSHEET			DATE	FEB 1997	
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ICLATURE				
Procurement Ammunition, Army/Activity 1				SMOKE POT,	SMOKE POT, FLOATING, TA, PRACTICE, M8	, PRACTICE, I	M8		
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	
QUANTITY (THOUSANDS)	21344	0	12058	6523	15275	16241	0	0	
COST (IN MILLIONS)	8.9	0.0	5.3	2.9	7.0	7.6	0.0	0.0	
									Ī

initiation, about a 25 second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements. It is deployed in a similar manner as The M8 Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After the service smoke pots, M4 series and M5. It is used by the individual soldier in squad, company and batallion units. This item is code A, approved for service use.

JUSTIFICATION:
This training pot is urgently needed to replace the current M4A2 HC filled munition with a training munition with a reduced hazard for troops exposed during training.

TYPE CLASSIFICATION DATE: October 1994

Page of Pages

UNCLASSIFIED

17

9 P

PAGE NO

41

ITEM NO

DD Form 2454, Jul 88

P-1 SHOPPING LIST

**EXHIBIT P-40** 

REPORTS CONTROL SYMBOL				UNCLASSIFIED					0
DD-COMP(AR) 1092	BU	BUDGETITE	TITEM JUSTIFICATION		SHEET		<u></u>	DAIE FEB	<i>)</i> 6
APPROPRIATION /BUDGET ACTIVITY Procurement Ammunition, Army/Activity 1					P-1 ITEM NOMENCLATURE SMOKE POT, FLOATIN	P-1 ITEM NOMENCLATURE SMOKE POT, FLOATING, TA, PRACTICE, M8	PRACTICE, M	8	E62900
				TOTAL COST	I TOTAL COST IN THOUSANDS OF DOLLARS	OF DOLLARS			
Weapon System Cost Elements	IDENT	FY96 Qty;	21344	FY97 Qty;		FY98 Qty;	12058	FY99 Qty;	6523
HARDWARE (SPECIEV BY MAJIOR COMP)	CODE	UNIT COST	SOST	UNIT COST	COST	UNIT COST	COST	UNIT	UNIT COST
	. "								
Load, Assemble, and Pack		127.83	2728			133.70	1612	136.68	
Chemicals		127.81	2837			133.68	1676	136.66	
Metal Parts		119.34	2649			124.82	1565	127.60	998
SUBTOTAL HARDWARE		384.87	8215			402.54	4854	411.50	2684
PROCUREMENT SUPPORT									
		11.63	248			12.17	147	12.44	81
		0.51	<del>-</del>			0.54	9	0.55	4
3. Proof & Acceptance Testing		4.33	95			4.53	22	4.63	30
		1.40	30			1.47	. 18	1.50	10
5. Industrial Stock Support 5. CAWCF Gain/Loss Surcharge		15.76	336			16.49	199	16.86	110
		33.65	718			35.19	424	35.98	235
NONRECURRING (SPECIFY)				-					
		•					-		
SUBTOTAL NONRECURRING									
TOTAL		418.52	8933	4		437.73	5278	447.48	2919
		<u></u>	-1 SHOPPING LIST					Page	
CN MORE		ON ECAG		ָרָ יי		UNCLASSIFIED	IED .	i	
OLI PILI	4	ראטר ויי	14 O					EXHIBIT P-5	T P-5

REPORTS CONTROL SYMBOL	;YMBOL			UNCLASSIFIED						
DD-COMP(AR) 1092	BUDGET ITEM JUS	BUDG	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	ORY AND PI	LANNING EXH	IBIT		DATE	FEB 1997	
APPROPRIATION /BUDGET ACTIVITY Procurement Ammunition, Army	APPROPRIATION /BUDGET ACTIVITY Procurement Ammunition, Army/Activity 1			P-1 ITEM NOMENCLATURE SMOKE POT, FLOATIN	ENCLATURE T, FLOATING, "	P-1 ITEM NOMENCLATURE SMOKE POT, FLOATING, TA, PRACTICE, M8	M8			
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR				DATE	DEL:IVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
FY96										
Load Assemble										
and Pack	Pine Bluff Arsenal	0909/88	CBDCOM	Jan 96	Oct 97	21344	127.83			
Chemicals	Unknown	C/FP	Pine Bluff Arsenal	96 Inc	Jul 97	22198	127.81			
Metal Parts	Unknown	C/FP	Pine Bluff Arsenal	30 Jul	Jul 97	22198	119.34			
FY98										
Load Assemble										
and Pack	Pine Bluff Arsenal	0909/88	100	Jan 98	Oct 99	12058	133.70			
Chemicals	Unknown	C/FP	Pine Bluff Arsenal	Jul 98	96 Inf	12540	133.68			
Metal Parts	Unknown	C/FP	Pine Bluff Arsenal	Jul 98	Oct 99	12540	127.60			
FY99										
Load Assemble										
and Pack	Pine Bluff Arsenal	SS/GOGO	IOC Pine Bluff Arsenat	Jan 99	May 00 Oct 00	6523 6784	136.68			
Motal Darts	2000	, de	Dine Bluff Arsenal	66  11		6784	127.60		•	
Metal Parts	OINTE			66 56	200	t c	00.131		-	
REMARKS										
		P-1 SHOPPING LIST	LIST			LINCI ASSIFIED		Page	of	Pages
	CN MET	41	PAGE NO	15	OF 17.		<u> </u>	Û	FXHIRIT P.5A	

																												-								
REPORTS CONTRO	SCOA	REPORTS CONTROL SYMBOL	ار ا							0	0	PRODUCTION	Z	S	SCHEDULE	<u> </u>													DATE	ш	FFB 1997	26				
APPROP	RIATIC	APPROPRIATION /BUDGET ACTIVITY	ACTIVITY													1		P-1	P-1 ITEM NOMENCLATURE	OMENC	LATUR															
Procure	ment	Procurement Ammunition, Army/Activity 1	n, Army/Ac	tivity 1														SM	SMOKE POT, FLOATING, TA, PRACTICE, M8	OT, FL	OATI	NG, TA	', PRA	CTICE	M8											
	_																	4							-										-	
S		-	ACCEP		FISCAL YEAR	LYEA		98								FISCAL YEAR	YEAR	97								FISCAL YEAR	EAR	8							<u> </u>	
8	_	U/M EA	PRIOR T	AS OF		95		AI FN	CAI ENDAR YEAR	FAR	96							_S	CALENDAR YFAR	YEAR		26						CALEN	CALENDAR YEAR	AR	98	_				_ ш
٠ >	<u>F</u>	YTO	1 OCT		8 1	λον	DEC	JAN	OCT NOV DEC JAN FEB MAR APR MAY	AR A	PR		JUN JUL AUG SEP	AUG	SEP	SCT SC	OCT NOV DEC		FEB	FEB MAR APR	APR M	MAY JUN	N JUL		AUG SEP OCT	CT NOV	V DEC	JAN	JAN FEB MAR APR MAY	AR AP	R MAY	J.	יוור	AUG S	SEP	Я
	+-	<del></del>	0.0			1		<		-		_									ļ ,					6.9	69	9.0								0.0
	3		}	<u> </u>				:																												
	97	0.0	0.0	0.0														∢																		0 0
	86	12.1	0.0	12.1																								∢								12.1
	- 6		ć	ď																																6.5
	<u> </u>	C.	0.0	0.00																																,
																																			<del> </del>	
																									-									****		
																										-										
								-, · · · · · ·										·····																		
TOTALS	ALS		0.0	39.9	8	00	8	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	00	0.0	6.9 6.9	6.9	9.0	0 0	0.0	00	00	0 0	0.0	0.0	186
				$\vdash$	2	ş	띪	JAN	EB X	1AR	PR M	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG	길	AUG		SEP OCT NOV	OV DEC	C JAN	FEB	2	APR M	AY JUN	N JUL	AUG	SEP 0	OCT NOV	V DEC	JAN	FEB MAR APR MAY JUN	AR AP	R MA√	JUN	JUL		$\leftarrow$	
											PROL	PRODUCTION	z				_L			PROL	COUCTIC	PRODUCTION LEAD TIME	TIME		F		REMARKS	RKS								
L		MANUF,	MANUFACTURERS NAME	S NAME							+	RATES	-		Ó I	MONTHS TO					21116	-														
∢ (			& LOCATION	NO						N		1/8/5		MAX	A F	AFTER DIDAY	. <i>&gt;</i>					Т	NIFAC	MANUFACTURING		TOTAL										
ة • د	100	Ding Ding Argonia							$\dagger$	9800	+	0069	╁	20400		မ	T-		PRIOR		AFTER	-	TIME	Щ		AFTER										
		ni Alseilai							T		╀		+	test			Τ		1 OCT		1 OCT	<u> </u>			_ <u>=</u>	1001										
																	Z	INITIAL	3		4	Ц	21			25	г									
-									H								REC	REORDER	6			4	16			20	_			i						
													٦.	P-1 SHOPPING LIST	PING	LIST														Page	ō		Pages			
_	DD For	DD Form 2445, JUL 87	7.										,			ġ	,	į	17					_	UNCLASSIFIED	SIFIED										
										Ē	CNATE		7		Ž V	ş	=																			

										1	UNIO A COLETE													-							
REP	DRTS C	REPORTS CONTROL SYMBOL	MBOL							5		j																			
200	OMP(A	DD-COMP(AR) 1092						ď.	PRODUCTION	CTIC		CHEL	SCHEDULE											40	DATE	FFR 1997	1997				
APP! Proc	ROPRI/	APPROPRIATION /BUDGET ACTIVITY Procurement Ammunition, Army/Activity 1	ET ACTIVITY Ion, Army/A	ctivity 1											P.1 ITE SMOK	P-1 ITEM NOMENCLATURE SMOKE POT, FLOATING, TA, PRACTICE, M8	NCLATUF	RE ING, TA	, PRAC	TICE, I	N88				1						
	S		ACCEP	BAL	FISCAL YEAR		66			: :			FISCAL	FISCAL YEAR	0						FISC	FISCAL YEAR		0						٠ ٠	
щ	6.8	U/M EA	PRIOR																				-			-	-			-	
<	nz		<u>و</u> —	ASOF		<u></u>	CALENDAR YEAR	YEAR	<b>8</b>	_	-	-	ļ		CALEN	CALENDAR YEAR	۷						Ò	CALENDAR YEAR	R YEAR		03		Ì		ш
o	+	FY QTY	1001	1001	OCT NOV DEC	V DEC 7	JAN FEB MAR APR MAY	MAR	PR	Y JUN JUL	JUL AL	AUG SEP	8	OCT NOV DEC		JAN FEB MAR APR MAY	APR	MAY JUN	귋	AUG	SEP OCT	NOV DEC		AN FEE	JAN FEB MAR	APR MAY	AY JUN	JC.	AUG	SEP	~
0	0	96 21.3	21.3	0.0																	-						•				0.0
0	0	97 0.0	0.0	0.0										-		<del></del>															0.0
0	0	98 12.1	0.0	12.1									<del>6</del>	0.0																	0 0
0	0	99 6.5	0.0	6.5		· ·															6.5										0.0
0	0	0.0	0.0	0.0												<del></del> -														··	0 0
0	0	0.0	0.0	0.0										···																	0 0
				·										<u> </u>		·															
] <u></u>	TOTALS	8	21.3	18.6	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	6.1	6.0 0.0	0.0	0.0 0.0	0.0	0.0		0.0	00 6.5	0.0	0 0 0	0.0	0.0	0.0	0 0 0 0	00	00	0.0	00
					OCT NO	NOV DEC JA	JAN FEB MAR APR MAY JUN JUL	MAR	PRODU	PRODUCTION	JUL AUG	SEP	0CT	SEP OCT NOV DEC	NAV	FEB MAR APR MAY JUN JUL	MAR APR MAY JUN JUI	MAY JUN		AUG	SEP OCT	NOV	DEC JAN		FEB MAR APR MAY	APR M.	AY JUN	되		Ш	1 1
ш		MANU	MANUFACTURERS NAME	3S NAME					₩.	RATES		₹	MONTHS TO			1		-			-			?							
۷			& LOCATION	NOL					_			₩	REACH MAX	×	_*	ADMIN LEAD TIME	AD TIME	_			· · · · · ·										
ပ								Σ	_	1/8/5	MAX	-	AFTER D DAY	<u>⊁</u>				WA	MANUFACTURING	URING	TOTAL	- Y									
-									$\vdash$			_		$\neg$	ш.	PRIOR 1 OCT	AFTER 1 OCT	<u>K</u> +	TIME	111	AFTER	E .									
									+	T		_		INITIAL	+-			+			3	T									
									H	П		igdash		REO	REORDER			H				Τ									
	8	3445 mm	7							_	P-1 SHC	SHOPPING LIST	3 LIST							-	1 2	1			Page		jo	Pages			
	3	DD FORM 2443, JUL 67	L 9/					E	ITEM NO	41		PAGE NO	Q N	17	OF 17					5	UNCLASSIFIED	<u>.</u>				L	:				
]																								-		"	EXHIBIT P-21	P-21			

												DATE			
	BUDGET ITEM	 E	LTEM	JUS	TIF	ICA	TI(	JUSTIFICATION SHEET	HEE	H		FE	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	IVITY					<u> </u>	P-1 ITEM NOMENCLATURE	NOMEN	CLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	MUNITION, A	ARMY / i	ACTIVITY 1	AMMUN	AMMUNITION		S	SIMULATORS ALL TYPES	3 ALL	TYPES					(E51200)
	FY	96	FY	97	FY	96	~	FY	66	Ą	00	λd	01	02 FY	. 03
QUANTITY	1	-0-	~ 0			-0-		-0-		-0-		-0-		0 -	-0-/-0-
COST (In Millions)	w	3.3	\$ 2.8		₩.	4.6	∙v>	6.0	·v>	5.6		\$ 8.6		\$ 3.8/2.1	.8/2.1

This budget line includes Simulators ALL TYPES.

	A	AMMUNIT	ITIC	ION COST		ANAL	ANALYSIS		(DOLLARS IN	THOUSANDS)	NDS)	
APPROPRIATION BUDGET ACTIVITY:	15	ACTIVITY: ARMY/ACTIVITY 1. AMMUNITION	MUNITION	SIMULATO	RS ALL TY	SIMULATORS ALL TYPES (E51200)	(0)		DATE	FEBRUARY 1997	97	
	_	96		FŸ	97		FY	86		FY	66	
SSN/ITEM:	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
(E48400) SIMULATOR PROJ AIRBURST M74	0	00.0	0	0	00.00	0	21	15.00	314	74	15.31	1131
(E49700) SIMULATOR PROJ GND BURST M115A2	308	7.76	2390	256	5.28	1352	435	5.92	2574	341	6.04	2064
(E50200) SIMULATOR HAND GRENADE M116A1	233	4.10	955	69	3.20	221	182	3.59	654	219	3.66	800
, (E88000) SIMULATOR TARGET HIT M25	o	00.00	0	35	9.91	348	33	10.18	341	89	9.49	649
(E88100) SIMULATOR TARGET KILL M26	0	00.00	0	0	00.0	0	46	15.16	069	0	0.00	0
(E88200) SIMULATOR ANTITANK M27	0	00.00	0	10	81.87	848	0	0.00	0	16	84.30	1318
W.			,									
				,								
		· · · · · · · · · · · · · · · · · · ·										
TOTAL P-1 LINE ITEM			3345			2769			4573			2965
DD FORM 2448, AUG 89				P-1 ITEM	ITEM NO.	42 I	PAGE NO. 2	2 OF 8		EXHIBIT	P-5	

											DATE			
	BUDGET ITEM	. II	LTEM	JUS	JUSTIFICATION SHEET	CAT	ION	SHE	EI		缸	FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	/BUDGET AC	TIVITY					P-1 IT	EM NOME	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION,	ARMY/	ACTIVITY 1		AMMUNITION		SIMULAT	OR PROJ	SIMULATOR PROJ GND BURST M115A2	T M115A.	2			(E49700)
	FY	96	FY	97	FY	98	Ъ́З	66	FY	00	FY	01	01 02 FY	FY 0.3
QUANTITY (Thousands)		308	256		435		341		465		464		Ī	-0-/-0-
COST (In Millions)	w	2.4	\$ 1.4		\$ 2.6		\$ 2.1	-	\$ 2.9		\$ 2.9		₩	-0-/-0-

This item simulates battle noises and effects of shell in-flight and ground explosions. The body of the simulator the whistle composition in the whistle assembly. The final burning is accomplished by ignition of the photoflash charge effecting flash and a loud report. Dimensions of the M115A1 Simulator: 7.13 inches x 2.33 inches; weight: hand-thrown device actuated by a pullcord igniter. A safety fuze provides a 6 to 10 second delay before igniting consists of a cylindrical paper tube containing a photoflash and a whistle assembly. The M115A2 simulator is a 3 pounds. This simulator is packed 100 each per wooden box. This item is Code A, approved for service use. item will be procured through the CAWCF at a fixed standard price.

# JUSTIFICATION:

This is a training unique item; not used in combat. FY 98/99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1960

RCS: DD-COMP(AR)-1092

APPROPRIATION BUDGET ACTIVITY PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION

AMMUNITION COST ANALYSIS (DOLLARS IN: THOUSANDS)

P-1 ITEM NOMENCLATURE: SIMULATOR PROJ GND BURST M115A2

PCN:PO2QM1DOC4Z

DATE: FEBRUARY 1997

NSN = 1370-0752-8136

(E49700)

								TOUR TOUR			(00)	(
	FY 96 (QTY	30	308069)	FY 97 (QTY		255996)	FY 98 (QTY		434775)	FY 99 (QTY	3,	341472)
ELEMENT OF COST QM: EACH	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
HARDWARE  1.LOAD ASSEMBLE, AND PACK (LAP) 2.*FUZE POWDER, TYPE I (LB)	308069	6.09	1877	255996	4.48	1146	434775	5.11	2221	341472	5.22	1781
SUBTOTAL PRODUCTION SUPPORT			1877			1146			2221			1.781
1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING 4. INTERIM TRANSPORTATION 5. INDUSTRIAL STOCK SUPPOIGCE.	ENGINEERING ENGINEERING TESTING NASPORTATION STOCK SUPPORT		58 22 343 343			47 12 11 11 134			227 26 26 16 78			182 2 0 13 64
SUBTOTAL NONRECHRETNG			513			206			353			283
1.*GOVERNMENT FURNISHED MATERIAL	VISHED MATERIAL								-· -· -· -			
SUBTOTAL  ***********************************	**************************************	*****		· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1							
TOTAL P-1 LINE ITEM		7.76	2390!		5.28	1352		5.92	*	**************************************	*******	* * * * * * * 2064

P-1 ITEM NO. 42 PAGE NO. 4 of 8

EXHIBIT P-5

Z

PCN PO2QM1DOD4Z

AMMUNITION, ARMY/ACTIVITY 1. AMMUNITIO  CONTRACT  CONTRACT  METHOD  CONTRACT  METHOD  TYPE  TYPE  TYPE  TYPE  C/FP  MAYO, FL  THES  THES  THES  C/FP	P-1 IJ	P-1 ITEM NOMENCLATURE					
CONTRACT METHOD & TYPE CAPP CAPP CAPP CAPP CAPP CAPP CAPP	SIMULA		TURE	NSN = 1370 - 00 - 752 - 8126	00-752-83	126	
CONTRACTOR & TYPE SSEMBLE, AND PACK (LAP) 6 LANCE ORDNANCE C/FP MAYO, FL MAYO, FL MAYO, FL C/FP 98 TBS 97 TBS 67 FP		ATOR PROJ GN	SIMULATOR PROJ GND BURST M115A2	42		(E49700)	(00)
C/FP C/FP C/FP	CONTRACTED AWARD BY DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	TE YES WHEN AVATE
1996 LANCE ORDNANCE C/FP MAYO, FL 1997 TBS C/FP 1999 TBS C/FP	; ; ; ; ; ; ; ;	 		: : : : : : : : : : : : : : : : : : :			
1997 TBS C/FP C/FP 1998 TBS C/FP C/FP C/FP	oc JUN 96	96 AON	308069	60.9			
	OC AUG 97 MAR 98 OC MAR 99	AUG 98 MAR 99 MAR 00	255996 434775 341472	4.48 5.11 5.22	YES	ONO	
ZE POWDER, TYPE I (LB)							
FY 1996 STOCK ISSUE N/A N/A N/A N/A FY 1997 STOCK ISSUE N/A N/A N/A N/A FY 1999 STOCK ISSUE N/A N/A N/A	A A A A A A A A A A A A A A A A A A A	NNN VAAA VAAA	6 6 7 9 7 8 7 8	4444   	N N N N N N N N N N N N N N N N N N N	AAA VVV	
PEMARKS:			1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	: : ! !

TBS - To Be Selected

P-1 ITEM NO. 42 PAGE NO. 5 of 8

EXHIBIT P-5A

						PF	PRODUCTION	JCT	ΙΟΙ		SCHED	3DU	JLE	E E	(EXHIBI	BI.	T P	-21	_					DA	DATE FEBRUARY	BRUA	RY 1	1997			REQU DD-C	IREMEI	MTS C	REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	I. SYM	
APPR PRO	APPROPRIATION/BUDGET PROCUREMENT AMMUNITION,	ATION ENT A	N/BUL MMUNI		IA:	CTIVITY ARMY/ACTIVITY	TIVI	7	~	MOM	E	2					P-1 SIN	1 IT	TOR	JOME PRO.1	ITEM NOMENCLATURE	ATUR I	E S	15.	1 2										74	F49700
FAC	N H		PROG	PROGRAM OTY		ACCEP.	<b>17</b> 25 25 25 25 25 25 25 25 25 25 25 25 25	FIE	FISCAL YEAR 97	YE	AR 9	97					FI	FISCAL YEAR	YE	AR	86				2	<u> </u>	SCA	FISCAL YEAR	EAR 99	1						2
8	Σ Σ				- 1		AS OF	98		CNI	CALENDAR YEAR	YEAR		97					3	CALENDAR YEAR	YEAR		98			-		۲	CALENDAR	AR YEAR		66				<u></u>
	<b>&gt;</b>	一	FY FY 96P 97	FY 98	FY 99		96	OCT NOV		DEC JAN	JAN FEB MAR	_	APR MAY	NO.	JUL	AUG SEP	P OCT	NON	DEC JAN	FEB	ž	APR MAY		125	AUG	SEP OCT	NOV	DEC	JAN	FEB MAR	AFR	MAY	S NO.5	JUL AUG	433	
7	K A	736				39	437			-			,	49 30	8	38 3	38 38	8	38	38 384	0	+	_	I	+	+-	1	I	+-	╀	$\bot$		1	-	-	0.00
~	K A	30				00.0	308		3.0	50 50	0 50	50	50 50					1	1			$\vdash$	L	L	╁	╁			╁	$\vdash$	_			$\vdash$	-	00.0
7	K A	$\sqcup$	256			00.0	ш		H	Н		L1				Н			Н			-			30	30	30 30	30	30	30 30	0 16	Ļ	$\vdash$	-		0.00
7	K	$\dashv$	_	435	į	0.00	435		$\dashv$	$\dashv$			$\dashv$			$\dashv$						L	L			Į.	_			36	6 36	36	36	363	36 37	7 182
2	K A	+	-		341	0.00	341	1	$\dagger$	+	$\perp$		$\dashv$			$\dashv$	$\prod$		Н			Н			H	H			H	H	Ц		H	H		341
			-					1	+	+	$\downarrow$		+	1		$\dashv$	1		$\dashv$			$\dashv$	4			_			$\dashv$							
		_	9			0.00	0.00		$\dashv$	$\dashv$	$\perp$	_	$\dashv$	$\prod$		$\dashv$	$\prod$		$\dashv$			$\dashv$			-		$\Box$		$\dashv$					$\dashv$	_	0.00
7	_	F 15.0	•	1		0.0	15.0		+	$\dashv$	$\bot$	1	$\dashv$	$\downarrow$	<u> </u>	$\dashv$	$\downarrow$		$\dashv$	$\Box$		+			$\dashv$	귀	22		$\dashv$	-	$\dashv$		-	-	4	0.00
		اي	0.00	- 1		0.0	00		+	+	$\perp$	<u> </u>	+	1	1	$\dashv$	$\blacksquare$	1	$\dashv$			$\dashv$	$\Box$		1	$\dashv$	_		$\dashv$	4	-		+	$\dashv$	_	0.00
	_	긆		0.0		0.00	0.0		+	$\dashv$	$\perp$	_	+	$\Box$	$\exists$	$\dashv$	1	1	$\dashv$			$\dashv$			$\dashv$	$\dashv$	_		$\dashv$	_				-	_	0.00
7	K SOF	<u>.</u>	$\downarrow$		0.7	9.	17.0		$\dagger$	$\dashv$	$\bot$	$\exists$	$\dashv$	$\prod$		$\dashv$	$\downarrow$		$\dashv$			$\dashv$			1	$\dashv$			$\dashv$		$\dashv$		$\dashv$			17.0
		T		1		T		$\rfloor$	$\dashv$	$\dashv$	$\bot$	$\top$	+	$\Box$		$\dashv$	$\bot$		$\dashv$			- 1			$\dashv$	$\dashv$			$\dashv$	-				-	$\dashv$	
1		$\dashv$	27			9.0	127		+	$\dashv$	$\prod$		+	1	1	$\dashv$	1	_	$\dashv$		32	38 38	8 19		-	$\dashv$			$\dashv$	-	_			_	_	0.00
ŀ		위	0.			0.00	0.0		$\dashv$	$\dashv$	$\int$	1	$\dashv$	$\rfloor$	7	$\dashv$	7	1	$\dashv$			$\dashv$			-	$\dashv$	_			_				_		0.00
	MC MC	$\dashv$	0.00			0.00	0.00		$\dashv$	$\dashv$	$\prod$	_	$\dashv$	$\Box$	$\exists$	$\dashv$	$\Box$		$\dashv$	$\Box$													_	_		0.00
	χ Ķ	-		<u> </u>		0.00 0.00	9.0		$\dashv$	$\dashv$	$\int$		-			-	$\Box$		4			-												_		0.00
	χ Ψ	$\dashv$			0.00	0.00	0.00		$\dashv$	$\dashv$	$\Box$	_	$\dashv$	$\Box$	_	-	$\Box$		$\dashv$											Ш						0.00
		_	-					寸					$\dashv$		$\exists$	$\dashv$	1	_	$\dashv$		$\exists$	$\dashv$			$\dashv$											
$\dashv$		П	72		1	0.00	372	7	25	50 57	7 57	3	$\dashv$	$\Box$	_	+	1	_	-	$\Box$	$\dashv$	$\dashv$	19	38	38	38 11			$\dashv$	4	$\perp$					0.00
	K AF	0.00	9			0.00	0.00		$\dashv$	$\dashv$	$\rfloor$	_	$\dashv$		_	$\dashv$		$\exists$	$\dashv$			$\dashv$				_			_							0.00
7	K AF	$\frac{1}{2}$	64.0			0.00	64.0		$\dashv$	$\dashv$	$\Box$	_	$\dashv$	$\Box$	1	$\dashv$	$\Box$	$\dashv$	$\dashv$		-	-			101	10 10	0 10	10	104.	0				-	_	00.0
	KAF	$\frac{1}{2}$		8		0.00	0.00		$\dashv$	4	$\Box$	_	-		$\dashv$	$\dashv$			-			-			-	$\dashv$								-		00.0
	K AF	-	4		0.00	0.0	0.00		$\dashv$	$\dashv$	$\Box$		$\dashv$	$\Box$	1	$\dashv$	$\Box$		-			$\dashv$			$\dashv$								_	-	<u> </u>	00.0
		$\dashv$	$\downarrow$						$\dashv$	$\dashv$	$\bot$		+	$\downarrow$	$\dagger$	+		+	$\dashv$	$\Box$	$\dashv$	$\dashv$		$\exists$	$\dashv$	$\dashv$				$\dashv$				H		
		_	-	1			_	1			1	1				- 1		1			1	- 1	- 1	7	- 1	$\dashv$			$\dashv$	-			1			
	ALL	4	32			299	936	7				6		9	8	38 38	38	8	38 38	8	36	38 38	38	38	38	38 11		7	$\dashv$				_			0.00
	ALL	L 323	- 1			0.00	323		0.0	50 50	20	의	50 50		$\dashv$	+	1	$\dagger$	4	1	+	$\dashv$	$\downarrow$	1	+		- 1		$\dashv$	$\dashv$						0.00
	ALL		320			0.00	320		$\dashv$	$\dashv$	$\Box$	+	4		$\dashv$	$\dashv$	1	$\dashv$	+		_	$\dashv$	$\Box$	1	404	40 40	40	40	40	34 30	0 16					00.0
	ALL		$\downarrow$	435		0.00	435		+	+	1	+	+	1	$\dagger$	+	$\downarrow$	+	+		$\dagger$	1	1	$\dagger$	$\dashv$	+		$\dashv$	-	36	5 36	36	36	363	36 37	182
		_	- N	VIIII V		3		1	-	- 13	100	1			1	1		1			7			7		- 1	•				- 1		- 1	- 1		
		PRC	PRODUCTION	NO		299	77.57	7	3311	3 3 11 0 10 10 10 11 5 5	707	<u> </u>	00 33		<u> </u>	38 38	200	ร	28 38	200	<u> </u>	38 38	<u> </u>	শ	) R/	18 66	40	40	40 3	34 66	52	36	36	36 3	36 37	540
FAC	-	MANI	TEACT	TIRER	NAME	- 1	PROD	UCT.	ION	RATES	ES	SHILL	23			PRC	CURI	EMEN		LEAD	TIME	[7]	Г	REMARKS	RKS											
NO.		8	& LOCATION	LIOIL		i	MINIMUM 1-8-5	M -1	8-5	- 4		FTER D	À,			<u> </u>	MIN L	ADMIN LEADTIME PRIOR AFTER			<u></u>	TAL														
-	CA	CAMDEN ORD	N ORD				25.00	53	53.00	- 1	126.0	0				1	Ę.	1 001		PROD.	AFTER 1	1 0	t S													
~	TC	O BE	TO BE SELECTED	目			25.00	0	53.00	- 1	126.0		Т	N	TNTTAL.		9	9	_	12		18														
<u> </u>	<u> </u>	ANCE	LANCE ORDINANCE,	INCE,	E	+	25.0	25.00 53.00	3	12(	176.0		Τ	RE	REORDER	ļ ķi	و	و	ļ_	12		18	T							(	11811	Ě	į	į		
]						1		-			1		1			$\frac{1}{2}$	1						7								NON	1 T T T	3	COMMITTE IN THOUSANDS	USA	D.S
														P-1	P-1 LINE NO.	CN.	7,7		PAGE NO.	NO.	b	ΟF	æ	PAGES			l					l				

£

Procession   Pro	T. seller T.	E49700		ζ <u>-</u> -	SEP 35		0.00	0.00	00.00	0.00	00.00	0	00.00	00.0	00.00	00.0	0.00	0.00	00.00	0.00	00.00		0.00	00.00	00.00	00.00		0.00	00.00	00.0	0.00	0.00					יאוזאגי	AINDS
PRODUCTION SCHEDULE   EXHIBIT P-213    MATERIAN   PRODUCTION SCHEDULE   EXHIBIT P-213    MATERIAN   PRODUCTION SCHEDULE   EXHIBIT P-213    MATERIAN   PRODUCTIO	COMP (AR) 1092			0.5	JUN JUL																																	- 1
PRODUCTION SCHEDULE (EXHIBIT P-21)   PRODUCTION SCHEDULE (EXHIBIT P-1)   PRODUCTION SCHEDULE (EXHIBIT P-1)   PROPERCIATORE   PRODUCTION SCHEDULE (EXHIBIT P-1)   PROPERCIATORE   PRODUCTION SUBJECT MILSAS   PRODUCTION SUBJECT	1997			CALENDAR YEAR	DEC JAN FEB MAR																																₩00	
ATTIVITY I. AMUNUTION  ATTIVITY  TO ARMY ACTIVIT		T M115A2		01	JUN JUL AUG SEP																												REMARKS		E			
TARMY CATIVITY 1. AMMUNITION  OTY PRIOR 1. TO 1. OF 100   1.00	1)	TEM NOMENCLATUR ATOR PROJ GND BUR	L YEAR	CALENDAR YEAR	JAN FEB MAR APR						28 28																					28		TOTAL	PROD. AFTER 1			
THE CLUCATION SCHEDULE  ACTIVITY  I. ARMY/ACTIVITY  I. ARMY/ACTIVITY  ACTIVITY  ACTIVITY  TO BE SET 1 OF 1 OF 1 OF 1 OF 1 OF 1 OF 1 OF 1 O		P-1 I' SIMUL	FISCA		JUL AUG SEP OCT NOV						28 28 28 28																					28 28	PROCUREMEN	PRIOR LEADTH	1 oct 1 oc	9	9	
ACTIVITION ACCEPT ANY ACCEPT AND ACCEPT ACCE	2000	NITION	3AR 00		APR MAY				- 1	34	28 28					17						+									34	34 45 28 28	тЕЅ номиня то	MUM AFTER D-DAY	0 0.9			
ACTIVITY  ARMY/AC  ACTIVITY  ACCEP  PY  BO  BO  BO  BO  BO  BO  BO  BO  BO  B	NODOC I TOIN	TIVITY 1. AMMU	BAL	AS OF 99	OCT NOV DEC	99	00.0	00.00	00.00	182 37 37 37			00.0	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.00		00.00		0.00	0.00		0.00	0.00	0.00	182 37 37 37	540 37 37 37	PRODUCTION RAT	SUST. 1-8-5 MAXI	25.00 53.00 12	53.00	00.55	
S	7.7.T.T.7.7.T	ODGET ACTIVITY NITION, ARMY/AC	λΉO	, X	FY FY	98 99	/36				- 1	0	15.0		0.00	17.0	127			T		250	3/5		0.00	00.0		1235		1			27.67	NAME			J.	
APPRO PROC NO. 1 1 1 2 1 1 1 1	Id/ NOT# & T gd Od	COUREMENT AMM	: :	)E	FY	96 F	A	308		K A	K A	300	SOF	SOF		K SOF	- 1	0.00	4	K MC	K MC	į	Ar o	-	AF			_	323	1	_	TOTAL PRODUC	-	_				

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	E49700	The CO	APR MAY JUN JUL ANG SEP	0.00									c	00.0			OUANTITY IN THOUSAND	THOOSANDS
DATE FEBRUARY 1997	FISCAL Y	01 CALENDAR YEAR	JUN JUL AUG SEP OCT NOV DEC JAN FEB											REMARKS	OCT			8 PAGES
T P-21)	=12	CALENDAR YEAR	SEP OCT NOV DEC JAN FEB HAR APR HAY	28 28 28 28 33									8 28 28 28 33	OCUREMENT LEAD TIME	AL AL	6 6 12 18	6 6 12 18	42 PAGE NO. 8 OF
FION SCHEDULE (EXHIBIT	1. AMMUNITION SCAL YEAR OO	CALENDA	DEC JAN FEB HAR APR MAY JUN JUL AUG	45 28 28 28 28 28									37 37 37 37 4 45 28 28 28 28 28 28 28	OT SHIND	MAXIMUM AFTER D-DAY	126.0	0.021	P-1 LINE NO.
PRODUCTION APPROPRIATION/BUDGET ACTIVITY	PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1, AMMUNITION	ROGRAM	FY FY FY 97 99	358 0.00									PRODUCȚION 2131 540 37	MAMT	ATION	CTED	I L	
APPROPRIATION	PROCUREMENT A	NO. ME		ALL									TOT	<u> </u>	NO. & LOCAMDEN ORD			

i		· [									DATE			
<b>T</b>	BUDGET ITEM	 [+	LTEM	<b>302</b>	TIFI	CAT	JUSTIFICATION SHEET	SHE	ET		Į.	FFRRIIARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTI	[VITY					P-1 ITE	M NOME	P-1 ITEM NOMENCLATURE				· · · · · · · · · · · · · · · · · · ·	
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, A	ARMY/A	CTIVITY 1	ı	AMMUNITION		AMMO CON	MPONENT	AMMO COMPONENTS ALL TYPES	ស			EE)	(EB0016)
	FY	96	FY	97	FY	98	ĀЗ	66	FY	00	FΥ	0.1	01 02 FY	03
QUANTITY	1	-0-	-0-		-0-		-0-		-0-		-0		-0-/-0-	0 -
COST (In Millions)	اد	2.1	\$ 4.9		\$ 4.8		\$ 7.1		\$ 6.8		\$.9		\$ 6.9/7.1	7.1

This budget line includes all Ammo Components/Support items.

	A	AMMUNITION COST ANALYSIS	TLIC	N CC	)ST	ANAL	YSIS	1	(DOLLARS IN	THOUSANDS)	VDS)	
APPROPRIATION BUDGET ACTIVITY:	T ACTIV	ACTIVITY:	MUNITION	AMMO COM	AMMO COMPONENTS ALL TYPES	TYPES (	( <b>6</b> 80016)		DATE	FFRRILL	FFRRIIARY 1997	
	Ł	96		FY	97		FY	86		FY	66	
SSN/ITEM:	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL	QTY	UNIT	TOTAL
COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)	0	0.00	543	0	00.0	3856	0	00.00	4728	0	00.00	6019
WEAPON COMP IN SPT OF PROOF/ACPT TESTING (EA1200)	0	0.00	1592	0	0.00	1060	0	00.00	95	0	00.00	1035
							.v.±44	****				
TOTAL P-1 LINE ITEM			2135		W-10-11	4916			4823			7054
							- 1	ļ				
DD FORM 2448, AUG 89				P-1 ITEM NO.	NO. 43		PAGE NO. 2	OF 4		EXHIBIT F	P-5	

											DATE		-	
	BUDGET ITEM	L	ITEM	JUS	TIFI	CAT	JUSTIFICATION SHEET	HE	臣工		FEBR	UARY	FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	TIVITY					P-1 ITEM	1 NOMEN	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1	MUNITION,	ARMY /	ACTIVITY 1		AMMUNITION		COMPONENT	TS FOR	COMPONENTS FOR RENOVATION OF FIELD STOCK	OF FI	ELD STOCK		(E)	(EA0500)
	FY	96	FY	97	FY	98	FY	66	FΥ	00	FY (	0.1	01 02 FY	03
QUANTITY		-0-	-0-		-0-	ı	-0-		-0-		-0-		-0-/-0-	~ O -
COST (In Millions)	₩	.5	\$ 3.9		\$ 4.7	7	0.9 \$		\$ 5.8	₩	5.7		\$ 5.9/	5.9/6.0

components are centrally managed and procured by U.S. Army Armament, Munitions and Chemical Command. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the These components are used to support the renovation of ammunition items currently in the Army inventory. All troops.

# JUSTIFICATION:

The requirements determination takes into consideration the need for the end item to which the component applies, the capability and the capacity of the workforce to apply the component and the capability of the storage, distribution requirements with new procurement. It is much more cost effective to correct most stockpile deficiencies through and transportation system to move the end item and component if necessary. The components are required to bring stocks that are no longer in an issuable condition back to an issuable condition. The alternative is to fill renovation than through new procurement.

SHERT	
JUSTIFICATION	
ITEM	
BUDGET	

1997
FEBRUARY

											ree	FEBRUARI 1997	1221		_
APPROPRIATION/BUDGET ACTIVITY	BUDGET AC	TIVITY					P-1 ITEM	NOME	P-1 ITEM NOMENCLATURE						Г
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	JUNITION,	ARMY/A	CTIVITY 1.		AMMUNITION		WEAPON CC	MP IN	WEAPON COMP IN SPT OF PROOF/ACPT TESTING	)F/ACE	T TESTING			(EA1200)	<u></u>
	FY	96	FY	97	FY	86	FY	66	FY	90		01 02 FY	0.2		0.3
QUANTITY		-0-	-0-		-0-		-0-		-0-	3	-0-	1		0/	
COST (In Millions)	₩	1.6 \$	\$ 1.1		٠.		\$ 1.0		\$ 1.0	O,	\$ 1.0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ 1.0/1.1	

(TECOM) in support of ammunition testing. These components are requisitioned from the Army Stock Fund on a reimbursable basis. Required components include mounts, tubes, breech assemblies, and other main weapon components This funding line procures weapons and weapons components required by the U.S. Army Test and Evaluation Command that are not supportable by requisition objectives at test activity locations.

# JUSTIFICATION:

These weapon components are required to support proof and acceptance testing at various Army Proving Grounds. Without these components, the Army would be unable to conduct the testing required to accept ammunition end items into its inventory. Page of **Exhibit** 

												DATE	[* <sup>1</sup>		
- ·	BUDGET ITEM	<u>.</u>	ITEM	JUS	TIF	ICAI	LIO	JUSTIFICATION SHEET	IEE	Ħ			FEBRUARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	TIVI					.д.	P-1 ITEM NOMENCLATURE	OMENC	LATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION,	ARMY/	ACTIVITY 1	. AMMUNITION	ITION		CAL	CAD/PAD ALL TYPES	TYPE	S				)	(EA0003)
	FY	96	FY	97	FY	98		FY 9	66	FŸ	00	FŸ	01	01 02 FY	03
QUANTITY		-0-	-0-		, ,	-0-		-0-		-0-		-0-		10 -	- 0 - / - 0 -
COST (In Millions)	₩	1.5	\$ 3.8		\$	1.1	\$	2.0	₩	3.1		\$ 4.6	ره.	\$ 5.	5.4/5.9

Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) are used in various escape and jettison systems on all types of Army aircraft.

# JUSTIFICATION:

and service life restrictions and therefore require replacement at specified intervals. FY 98/99 procurement is required to assure availability of replacement items when needed and avoids grounding aircraft or rendering aircraft partially mission capable. Required to support aircraft escape and jettison systems and mission essential needs. Items are subject to shelf

SHEET
JUSTIFICATION
ITEM
BUDGET

	1997
DATE	FEBRUARY

PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1. AMMUNITION         TEM STAND LESS THAN \$2 MILLION         TEM STAND RESIDENCE THAN \$2 MILLION         (EA0055)           QUANTITY         -0-         <	APPROPRIATION/BUDGET ACTIVITY	BUDGET ACT	YTIVI					P-1 IT	EM NOME	P-1 ITEM NOMENCLATURE						
FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 02 FY 101 1.2 \$ .7 \$ 8 \$ .8 \$ 5 .7 \$ 5 .8 \$ 5 .67.6	PROCUREMENT AM	MUNITION,	ARMY/	ACTIVITY 1.	AMMUN	NOITI		ITEMS 1	ESS THA	N \$2 MILLI	NO				(EAOO	55)
-0000000000-		FY	96	FY	97	FY	86	FY	66	FY	go	ΕŸ	[-	0.2		60
\$ 1.2 \$ .7 \$ .8 \$ \$ .7 \$ \$	QUANTITY		-0-	-0-		)	-(	-0-	ľ	-0-		-0-			- 0 - /	
	COST (In Millions)	\$	1.2	. s		3. \$		ts.	8	۶. ۲.		8.		₩.	9./9.	

This budget line includes miscellaneous ammunition items less than \$2 million.

DD Form 2454, JUN 86

P-1 SHOPPING LIST ITEM NO. 45 PAGE NO.

1 of 2

t

Page of Pages **Exhibit P-40** 

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)	TION ITEMS LESS THAN	FY 97 FY 98	TOTAL OTY COST TOTAL OTY COST TOTAL OTY COST TOTAL	0 0.00 0 49 0.57	156 0 0.00 0 1855 0.13 235 1540 0.13 199	0 00.0 0 0.00 0 0.00 0	408 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0 0 0	<b>486 0 0.00 484 0 0.00 378 0 0.00 365</b>	160 0 0.00 179 0 0.00 178 0 0.00 187				1239 663 804	
ANALYS	\$2MILLION (FAUD	FY		0	0			45 to 10 to					663	
	ITEMS LESS THAN	79 Y	_		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				 	<del></del>		
NITIOI	NOTA	Ē	<u> </u>										1239	
AMMU	ACTIVITY:	FY 96	UNIT COST		1200 0.13	0 0 0	0 0 0 0	0 0 0	0.00					
	APPROPRIATION BUDGET ACTIVITY:		SSN/ITEM:	(E00100) CTG 10 GAUGE BLANK	(E01700) CTG CAL .22 LR MATCH F/PISTOL	(E05000) CTG CAL .38 SPEC BALL M41	(E42400) RIOT CONTROL AGENT CS CAPSULE	(EA0960) USAMTU FT BENNING	(EA1700) NEW EQUIPMENT TRAINING	**************************************			TOTAL P-1 LINE ITEM	

SHEET
JUSTIFICATION
ITEM
BUDGET

	1997
DATE	FEBRUARY

											•	 . 1	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	IŢŶ					P-1	P-1 ITEM NOMENCLATURE	VCLATURE				
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	MUNITION, ARM	IY/ACT	IVITY 1.	AMMUN	AMMUNITION		AMMC	AMMUNITION PECULIAR FOUTPMENT	ULIAR EOUT	PMENT			(FA0575)
	FY 96	96	FY	97	FY	86	L	FY 99	, 74	00	24	01	
QUANTITY	~0-		-0-		,	-0-		-0-	-0-	3	-0-	-0-	0-
		+		1									
COST (In Millions)	10	4.9 \$	5.6		\$ 8.6	9.	٠	10.7	\$ 11.2		\$ 10.2	. 6 \$	9.6/8.6

destroy hazardous components and reclaim salvageable parts or metals. The APE is designed, developed, and fielded to Ammunition Peculiar Equipment (APE) is unique, low density equipment items specifically designed, fabricated, tested, supporting surveillance is keyed to stockpile sampling and funding tests of the items to assure readiness for combat procured, and adopted for use in ammunition depot operations on conventional and chemical ammunition. These depot The APE The APE is not stocked nor is it available from commercial sources. The equipment is different support ammunition field service stocks that are currently on hand in the inventory control point and is used to Demilitarization APE is similar somewhat to maintenance APE but must go further in disassembly to from production line plant equipment in that it disassembles ammunition items into components, usually for the removal of a hazardous component. The APE is also designed to perform cleaning and preservation functions on operations involve maintenance, demilitarization, preservation/packaging, and surveillance functions on the ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. restore these stocks to an issuance/serviceable condition. ammunition item. or training.

# JUSTIFICATION:

Ammunition readiness will be in jeopardy, public laws on environment and safety involving hazardous The APE and replacement parts must be on-hand to perform any of the ammunition depot operations for conventional and chemical ammunition. The ammunition depot operations cannot be accomplished if the required APE is not supplied in loaded to worldwide locations for the accomplishment of depot type operations based on the ammunition requirements. The equipment described herein is required to support the following ammunition programs: Fiscal Year 1998 through chemical agents and munitions; equipment for worldwide maintenance lines; equipment to support the toxic chemical equipment to meet ammunition operations requirements. The APE is centrally managed by HQ, IOC. The equipment is maintenance facilities; Prepositioned Ships; and also to support Government-owned, contractor-operated plants as Fiscal Year 2003 Integrated Conventional Ammunition Maintenance Plan (ICAMP), surveillance program for lethal materiel may be violated, and a possible loss of life and Government property may result through altering of Government furnished equipment (GFE) in support of ammunition depot operations at those locations. a timely manner.

DD Form 2454, JUN 86

P-1 SHOPPING LIST ITEM NO. 46 PAGE NO. 1 of 1



		i	 								DATE			
1	BUDGET ITEM		TEM	JUS	TIFI	CAT	JUSTIFICATION SHEET	SHE	ET		т. Т.	FERRIDARY 1997	1997	
APPROPRIATION/BUDGET ACTIVITY	BUDGET ACTIV	VITY					P-1 ITE	M NOME	P-1 ITEM NOMENCLATURE					
PROCUREMENT AMMUNITION, ARMY/ACTIVITY 1.	WUNITION, AR	RMY/A	CTIVITY 1		AMMUNITION		FIRST DE	ESTINAT	ION TRANS	FIRST DESTINATION TRANSPORTATION (AMMO)	N (AMMO)			(EA0550)
	FY	96	FY	97	FŸ	96	FY	66	ĀΑ	00	FY	0.1	02 FY	FY 03
QUANTITY	-0-	-(	-0-		-0-		-0-		-0-		-0-		,	-0-/
COST (In Millions)	₩	4.3	\$ 5.4		9.9 . \$	,,	\$ 6.3		\$ 5.5	· ·	5.4		v,	\$ 5.6/5.7

## DESCRIPTION:

These into the Army supply system or to a port for transportation to a second destination; e.g., OCONUS customers. These funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs such as Europe and Korea training and prepositioned war reserve requirements; war reserves support to allies (Korea and Thailand); afloat prepositioned ships, etc. manufacturing plants or assembly points; e.g., AAP, to a CONUS depot, customer, other point of first acceptance Transportation funds are required to support procurement and distribution of Army ammunition end items from

## **BUDGET ACTIVITY 2**

EXHIBIT P-1 DATE: 14-FEB-97

ACTIVITY: 2 \*\*AMMUNITION PRODUCTION BASE SUPPORT\*\*

\*\*\*\*\*\*UNCLASSIFIED\*\*\*\*\*\*\*
DEPARTMENT OF THE AXBY
FY 98 PROCUREMENT PROGRAM
98 PRES

APPROPRIATION: \*\*AMMUNITION\*\*

48 PRO COM COM CAN COM CAN CAN CAN CAN CAN CAN CAN CAN CAN CAN	ITEM										
	NOMENCLAIORE		9611	1 3 L		•				; > 1	00
		_	COST	, Y Y Y	COST	01Y K	1800	QTY K	1800	-	COST
1	(2)	(3)		(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
	**PRODUCTION BASE SUPPORT**		- - - - - - - - - - - - - - - - - - -		;		: : : : :				
	PROVISION OF INDUSTRIAL FACILITIES (EP1000)			-	51631		39971		45857		49023
	COMPONENTS FOR PROVE-OUT (EA0054)				1415		1060				
-	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)				18141		17606		16750		12479
51 MAI FAC	MAINTENANCE OF INACTIVE FACILITIES (EP1500)				17503		31867	-	23000		19000
52 CON DEM	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				62726		95513		106118		93842
53 ARM	ARMS INITIATIVE (EP2500)				25255		44958		2000		1
SUB	SUB-ACTIVITY TOTAL				230926		230975		196725		174344
ACT	ACTIVITY TOTAL				230926		230975		196725		174344
APP	APPROPRIATION TOTAL		-		1052896		1126090		890905		975973

						DATE		
	BUI	BUDGET ITEM JUSTIFICATION SHEET	TIFICATION SH	EET			February 1997	
APPROPRIATION / BUDGET ACTIVITY	IIVITY			P-1 ITEM NOMENCLATURE	3.			
PROCUREM	ENT OF AMMUNITION /Am	PROCUREMENT OF AMMUNITION /Ammunition Production Base Support	upport			INDUSTRIAL FAC	INDUSTRIAL FACILITIES (EP1200)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)	51.6	40.0	45.9	49.0	58.6	0.99	71.8	78.0

DESCRIPTION:

The Industrial Facilities (IF) budget request contains funding for correction of environmental deficiencies at existing facilities, design of future projects to meet peacetime or future requirements, and replacement of obsolete or worn production equipment and correction of infrastructure.

FY 99	\$ 23.8 6.0 19.2	\$ 49.0
FY 98	\$ 13.7 6.0 26.2	\$ 51.6 \$ 40.0 \$ 45.9 \$ 49.0
FY 97	\$ 12.2 6.4 21.4	\$ 40.0
FY 96	\$ 11.1 7.5 33.0	\$ 51.6
	Environmental Design Production Support	TOTAL

## JUSTIFICATION:

Funds are used for the establishment, augmentation, and improvement of production capability for items procured under the ammunition appropriations. Funds also correct environmental problems, which if left unfunded would result in costly fines and penalties against the Army.

PROVING GROUND

LABORATORY

/ARIOUS AAP'S

ENVIRONMENTAL

HOLSTON AAP HOLSTON AAP HOLSTON AAP HOLSTON AAP HOLSTON AAP

HARRY DIAMOND

**SCRANTON AAP** SCRANTON AAP

RADFORD AAP

RADFORD AAP RADFORD AAP RADFORD AAP RADFORD AAP AADFORD AAP

MILAN AAP

OCATION

Item No. 48 Page 3 of 51

•	BUDGET ITEM JUSTIFICATION SHEET	SHEET	DATE		February 1997	
APPROPRIATION / BUDGET ACTIVITY PROCUREMENT C	BUDGET ACTIVITY PROCUREMENT OF AMMUNITION /Ammunition Production Base Support	P-1 ITEM NOMENCLATURE		INDUSTRIAL FACILITIES (EP1200)	S (EP1200)	
LOCATION	PROJECT TITLE	PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
HOLSTON AAP	Acid A Industrial Wastewater Equalization/Spill Ponds to Concrete Tanks	5992994				1845
IOWA AAP	Production Support and Equipment Replacement	59X5333	105	485	1626	534
LAKE CITY AAP LAKE CITY AAP	Production Support and Equipment Replacement Explosive Waste Incinerator Upgrade	59X5332 5993337		679	861	1307
LONE STAR AAP LONE STAR AAP	Production Support and Equipment Replacement Sanitary Sewer Collection System	59X5316 5982955	161		1225 1757	
MILAN AAP MILAN AAP MILAN AAP	Production Support and Equipment Replacement Upgrade Sewage Treatment Plant Rehabilitation of Sewage Collection Lines	59X5317 5992943 5992944	620	89	1277	4064
RADFORD AAP RADFORD AAP RADFORD AAP RADFORD AAP	Production Support and Equipment Replacement Acid Sewer System Upgrade Close Bioplant Equalization Basin Correct Defects in Equalization Tanks	59X5326 5992925 5962941 5993313	1444	1294	1665	163 5512 1384
SCRANTON AAP	Production Support and Equipment Replacement	5985342			126	
VARIOUS AAP'S	Correct Environmental Deficiencies TOTAL	59X2910	<u>597</u> 111,111	<u>756</u> 12,228	554 13,727	399 23,823
<u>DESIGN</u> VARIOUS AAP'S	Engineering Design	59X3046	7496	9629	5989	5978
	TOTAL INDUSTRIAL FACILITIES:		51,631	39,971	45,857	49,023

INDUSTRIAL F	ACILIT	IES COS	T ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					rebruary 1997	
nace Driuge nzu, neriabilitäte rect Safety Deficiencies	Hoad C,			High Explo	High Explosive (HE) Artillery/Demolition Charges (Trinitrotoluene (TNT)/H6)	n Charges (1	Frinitrotolu	ene (TNT)/I	Н6)	
	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PROJ Sable	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	3JECT (1-8-5) 8				
	FY	86		H. FACILITY						
ELEMENT OF COST	QTY	UNIT COST	TOTAL	1. NAME			lowa Arm	lowa Army Ammunition Plant	ion Plant	-
	(a)	(p)	(c)	2. LOCATION	•			Middletown, lowa	wn, Iowa	
A. CONSTRUCTION COST			4,375	4,375 a. TYPE (GOGO, GOCO, COCO)	, (000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
-			0	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl
6)					Not Applicable					
б										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			98							
F. OTHER IN-HOUSE SUPPORT COST			2	J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & YEAR		I
TOTAL FACILITY PROJECT COST			4,756		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE			Oct-94 Dec-95		-
G. OTHER COSTS			•			۵	-21	Jan-98/Jan-98 May-99		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE	IŽĮŽ	Not Applicable Not Applicable		
					7. PROVE OUT COMPLETE		ĮŽĮ	Not Applicable		
NARRATIVE EXPLANATION	1									

This project will correct the following deficiencies: Bridge H20 is a 55-year-old wooden trestle bridge located on the main road loop and washouts have culverts have failed. The existing 50-year-old 12-inch water service line to Line 3A has serious limitations as it is not looped to the main distribution system; therefore, an additional water line is needed for fire protection. Repeated expansion and contraction has caused concrete columns to split; rehabilitation is required to restore full dock function and avoid problems with various HE artillery production. The deteriorated Yard L concrete rail caused the bridge to be closed twice in the past 5 years. Road C's structure is over 100 years old, the base has degenerated with time, and most platforms require replacement for safety compliance.

Item No. 48 Page 5 of 51

z

Exhibit P-25 Industrial Facilities Cost Analysis

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILI	TES COS	ST ANAL	YSIS (Dollar	s in Thousands)			1. DATE Fe	February 1997	
2. PROJECT TITLETTYPE Safety - Overhead Electrical Service, Phase	se 1		3. END ITEM	3. END ITEM SUPPORTED MODEL Pro	DEL Propellants and Explosives (Nitroplycerin and Nitrocellulose)	rodlycerin and	1 Nitrocel	(asolni		
4. PROJECT NUMBER 5982783	5. ANNUA	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PROJ		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JUECT (1-8-5)				
	Ţ	88		H. FACILITY						
ELEMENT OF COST	ΔT	UNIT COST	TOTAL	1. NAME		Rad	ford Arm	Radford Army Ammunition Plant	ion Plant	
	(a)	(b)	(c)	2. LOCATION	•			Radford	Radford, Virginia	
A. CONSTRUCTION COST			022	770 3. TYPE (GOGO, GOCO, COCO)	co. coco)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			0	Project Number	Title	FY & Appn	Vatue (\$ mil)	Facing	Start	Compl
ė,										
ri vi										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 17 46							
F. OTHER IN-HOUSE SUPPORT COST			4	J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			837		CONCEPT DESIGN COMPLETE     FINAL DESIGN COMPLETE     INITIAL FINAL PROJECT AWARD		1 12	Aug-95 Nov-96		
G. OTHER COSTS						ı	:1	Nov-99		
1. FACILITY PROVE-OUT COST			0			MPLETE	121	Not Applicable		
2. MILITARY CONSTRUCTION APPN.			<b>o</b>		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		<b>4</b>   <b>2</b>	Not Applicable		
NARRATIVE EXPLANATION										

The purpose of this project is to bring the exterior electrical power and signal distribution systems into compliance with Army safety criteria in the following explosive facility areas: Nitroglycerin -2 (NG-2), Solvent Recovery Finishing Area, 4th Rolled Powder Area, and Rocket Manufacturing Areas.

INDUSTRIAL F	ACILIT	TES COS	T ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLETYPE Infrastructure-Steam Distribution System (Schoolhouse Road and Areas 1-	nd Areas 1		3. END ITEM	3. END ITEM SUPPORTED MODEL					February 1997	
3/4/5/6)					Ammunition Items: 5.56mm, 7.62,mm, .50 Caliber, 20mm	5.56mm, 7.62,mn	n, .50 Caliber,	20mm		
4. PROJECT NUMBER 5982846	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PROJ 8	JECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	PROJECT (1-8-5)				
	Ē	86		H. FACILITY		!				
ELEMENT OF COST	ΔI	UNIT COST	TOTAL	1. NAME		E.	ike City Arr	Lake City Army Ammunition Plant	tion Plant	
	(a)	(Q)	(3)	2. LOCATION			Pul	ndependence. Missouri	Missouri	
A. CONSTRUCTION COST			6,881	3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	IOJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Compl
				Number		Appn	(\$ mil)		Date	Date
લં					Not Applicable	71 4				
, e										
SUBTOTAL EQUIPMENT COST			0		·	-				
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 153 413							
F. OTHER IN-HOUSE SUPPORT COST			क्ष	J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR	ا	
TOTAL FACILITY PROJECT COST			7,481			兩		Apr-96 Nov-96		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	ARD::	•	Jan-98/Jan-98		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS 7. PROVE OUT COMM. TET	COMPLETE		Not Applicable		
					7. TACKE COL COMPLETE		- <b>'</b>	Not Applicable		
NARRATIVE EXPLANATION										

This project provides for replacement of the steam and condensate lines to the steam plant along Owens Schoolhouse Road, and Areas 1. 3, 1-4, 1-5, and 1-6. This will include all main and branch lines (building 85 and 35 areas, and 33/34 series buildings). It will further include replacing steam and condensate pipes, all pipe support structures, condensate pumps, traps, accessories and other components. This project will reduce the present loss of condensate return and its associated costs.

2

INDUSTRIAL FA	FACILI	ries cos	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Environmental at Ammunition Plants						Various				
	5. ANNUA	ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
5982910		Ž			Not Applicable					
	Œ			H. FACILITY						
ELEMENT OF COST	È	UNIT COST	TOTAL	1. NAME	U.S. A	U.S. Army Industrial Operations Command (IOC)	ial Operati	ons Comma	(10C)	
	(a)	(p)	(c)	2. LOCATION			Varion	Various Ammunition Plants	on Plants	
A. CONSTRUCTION COST			250	250 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	*OJECTS					
			220		7 57.24					-
<u></u>			707	Number	. me	Appn	Value (\$ mil)	racing	Start	Compl
oi.					Not Applicable					
ń										
SUBTOTAL EQUIPMENT COST			232							
C. EQUIPMENT INSTALLATION COST			56							
E. CORPS OF ENGINEERS SUPPORT COST			0							
F. OTHER IN-HOUSE SUPPORT COST			0	O J. PRINCIPAL MILESTONES	STONES		2	MONTH & YEAR	_	
TOTAL FACILITY PROJECT COST			554		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE	ш	•	Not Applicable		
					3. INITIAL/FINAL PROJECT AWARD	æ	. – •	Feb-98/Mar-98		
G. OTHER COSTS							•	May-99		
1. FACILITY PROVE-OUT COST			5 0		5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE	•	Jul-99		
Z. MILITARY CONSTRUCTION APPN.			>		6. PHOVE OUT COMPLETE		•	Not Applicable		
NARRATIVE EXPLANATION										
Emission to more than a more than that appears to maintained to another most aminimate the maintained to another most aminimate the maintained to another most aminimate the maintained to another most aminimate the maintained to another most aminimate the maintained to another most aminimate the maintained to another most and another most another most and another most and another most another most another most and another most another most and another most another most and another most	La comple	that con	tont enn.	m of concilion	anintained to opening or	ou discusor.	4000			٠

Environmental laws and regulations demand that constant surveillance be maintained to ensure operations meet environmental standards. These efforts restore lands that have been contaminated by Department of Army activities, replace equipment, and expand processes to meet the requirements of various environmental laws and regulations. See following page for plant breakout.

NDNI	ISTRIAL FACILITIES COS	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	nousands)	1. DATE February 1997	2867
2. PROJECT TITLE/TYPE Environmental at Ammunition Plants	ion Plants	3. END ITEM SUPPORTED MODEL	Various		
4. PROJECT NUMBER 5982910	5. ANNUAL CAPACITY BEF Not Applicable	-ORE PROJECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable		
	AMMUNITION PROJE	AMMUNITION PRODUCTION BASE SUPPORT PROJECT 5982910	L		
			DATE February 1997		
INSTALLATION	PROJECT TITLE		CLASS *	DOLLARS (\$000)	
Iowa AAP	Carbon Reactivati	Reactivation Project	e	.291	
Sunflower AAP	Water Treatment P	Water Treatment Plant Sludge Monofill	e E	.263	
			TOTAL	. 554	
* Class 3: Includes by legally-mandated r funded, these project	Includes projects and activities at undated requirements, but are needed projects are likely to become compl	* Class 3: Includes projects and activities at facilities that do not have establishe by legally-mandated requirements, but are needed to address overall Army environmental funded, these projects are likely to become compliance issues in the future.	facilities that do not have established deadlines to address overall Army environmental goals. If	ed deadli goals.	nes If not

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILIT	IES CO	ST ANAL	YSIS (Dollar.	s in Thousands)			1. DATE Fe	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Environmental - Plant Wide Diking					Research Department Explosive (RDX)/High Melt Explosive (HMX)	sive (RDX)/Hig	th Melt Explosi	ive (HMX)		
4. PROJECT NUMBER	5. ANNUAL	CAPACITY E	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	<b>JJECT (1-8-5)</b>				
5982923	•	Not Applicable	e)c		Not Applicable					_
	FY	86		H. FACILITY						
ELEMENT OF COST	OTY	UNIT COST	TOTAL.	1. NAME		I	Holston Army Ammunition Plant	y Ammunit	tion Plant	
	(B)	(p)	(0)	2. LOCATION	-	}	Ž	Kingsport, Tennessee	eesseuue	
A. CONSTRUCTION COST			3,179	3,179 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	IOJECTS					
			0	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl
તાં				5992923	Environmental - Plant Wide Diking	FY 99	2.739	Š	Jan-99	Sep-00
ń										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 70 191							
F. OTHER IN-HOUSE SUPPORT COST			17	J. PRINCIPAL MILESTONES	TONES		Ž	MONTH & YEAR		
TOTAL CACILITY BBO IECT FACT			3.457		1. CONCEPT DESIGN COMPLETE	•••	1	Jun-96		
					3. INITIAL/FINAL PROJECT AWARD	Q	וייו	Jan-98/Jan-98		
G. OTHER COSTS			_		4. CONSTRUCTION COMPLETE		1.	Sep-99		
2. MILITARY CONSTRUCTION APPN.			-			J. J. J. J. J. J. J. J. J. J. J. J. J. J	-14	Not Applicable		
					7. PROVE OUT COMPLETE		141	Not Applicable		
NARRATIVE EXPLANATION	,			:	-	:				

This project provides acid resistant diking for nitric acid tanks, spill protection at railroad and truck unloading/loading stations, and appropriate diking at other active chemical tanks located throughout the plant. This project is considered an environmental class 3H "Must Fund".

INDUSTRIAL FA	ACILIT	TES COS	T ANAL	YSIS (Dollar.	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	February 19 Load, Assemble, and Pack II API of Primers, Delonators, Delays, F1785	and Pack (LAP)	or Primers.	F Jeronarors, Dela	February 1997	
ntal - Sanitary Sewer Collection System						and Volcano Items Including M98 Detonator, M53 Delay, M55 Detonator	M98 Detonal	or, M53 Delay.	M55 Detonat	jor
4. PROJECT NUMBER 5982955	S. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
000000	à			VALUE OF U	Not Applicable					
ELEMENT OF COST	È	Z	TOTAL	n. racini		•	č		?	
	; €	( <u>a</u>	<u> </u>	2. LOCATION	-	Lone	e Star Arr	Lone Star Army Ammunition Plant Texarkana Texas	Ammunition Plant Fexarkana Texas	
A. CONSTRUCTION COST	į		1,616	1,616 3. TYPE (GOGO, GOCO, COCO)	. (0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be										
specified for all equipment costing more than \$0.5 million)			0	I. RELATED PROJECTS	OJECTS					
				Project	Title	FY &	Value	Facing	Start	Compl
						Iddy	(amil)		Dare	Date
či					Not Applicable					
6										
SUBTOTAL EQUIPMENT COST			0				,			
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 36 97							
F. OTHER IN-HOUSE SUPPORT COST				J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,757		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		•	May-95 Oct-96		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	۵	·	Mar-98/Mar-98		
1. FACILITY PROVE-OUT COST			0		5. EQUIPMENT INSTALLATION COMPLETE	MPLETE		Not Applicable		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		. – . <b>– .</b>	Not Applicable Not Applicable		
NARRÂTIVE EXPLANATION										

Sanitary sewer collection system is over 50-years-old. Infiltration of ground/rain water into the line has increased volume of waste water to the treatment plant. Exfiltration of sewage into ground/streams is causing contamination. This environmental project will replace existing sanitary sewer collection system to decrease amount of infiltration during wet weather and exfiltration during dry weather. Project also increases the flow capacity of the lines. This project is considered an environmental class 3.

INDUSTRIAL FA	ACILIT	IES COS	ST ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					annan inn	
n of Equipment and Construction Design	- 1					Multiple				
4. PROJECT NUMBER 5983046	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PRO.	JECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
	Œ			H. FACILITY						
ELEMENT OF COST	γIΩ	UNITCOST	TOTAL	1. NAME					Multiple	
	(B)	(g)	(c)	2. LOCATION					Multiple	
A. CONSTRUCTION COST			0	0 3. TYPE (GOGO, GOCO, COCO)	(0000)				Multiple	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
•			0		Title	FY &	Value	Facing	Start	Compl
4				Number		Appn	(\$ mil)		Date	Date
Q,					Not Applicable					
ri										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 0 1,995							
F. OTHER IN-HOUSE SUPPORT COST			3,994	3,994 J. PRINCIPAL MILESTONES	STONES		]=	MONTH & YEAR		
TOTAL FACILITY PROJECT COST		***	5,989		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		- <b></b>	Not Applicable Not Applicable		
OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD	Ω	. — . •	Not Applicable		
1. FACILITY PROVE-OUT COST			00			MPLETE	I	Not Applicable		
2. MILITARY CONSTRUCTION APPN.			5		6. PHOVE OUT BEGINS 7. PROVE OUT COMPLETE		-,-,	Not Applicable Not Applicable		
NARRATIVE EXPLANATION										

This project will provide the annual funding increment for the industrial Facilities (IF) Program. These funds are used for the initiation and/or continuation reviews, design related analyses, preparation and incorporation of engineering change proposals, preparation of environmental evaluation to determine if a categorical exclusion to the requirement for an environmental assessment (EA) can be made, preparation of the EA or Environmental Impact Statement (EIS), and other design related efforts allowable under existing regulations deemed necessary to assure efficient and timely execution of of construction design criteria, equipment and construction concept and final design, process design specification, procurement packages, design facility projects.

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILITI	ES COS	T ANAL	.YSIS (Dollar	s in Thousands)			1. DATE F	February 1997	
2. PROJEČT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Manhurin Loader Upgrade					Ammunition Items: 7.62mm Cartridges (All Types)	7.62mm Cartridg	es (All Types	6		
4. PROJECT NUMBER 5983330	S. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Analicable	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
	2	60		U EACH TO	Not Applicable					
ELEMENT OF COST	ΔTV	UNIT COST	TOTAL	1. NAME		Lake	City Arm	Lake City Army Ammunition Plant	tion Plant	
	(a)	(p)	(c)	2. LOCATION	•		Inde	Independence, Missouri	Missouri	
A. CONSTRUCTION COST			0	0 3. TYPE (GOGO, GOCO, COCO)	. (000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS	:				
<u>.</u>			1,899	Project	Title	FY&	Value	Facing	Start	Compl
				i de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della comp		id.	(1111)		Cald	
ď					Not Applicable		-			
6										
SUBTOTAL EQUIPMENT COST			1,899			·				
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST		,	316 19 0							
F. OTHER IN-HOUSE SUPPORT COST			12	J. PRINCIPAL MILESTONES	TONES		Š	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			2.246		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		•	May-96		
					3. INITIAL/FINAL PROJECT AWARD	0	121	Mar-98/Mar-98		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST			0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	MPLETE		Not Applicable		
2. MILITARY CONSTRUCTION APPN.			0					Apr-99 Jul-99		
A STATE OF S										
NARRATIVE EXPLANATION										

This project will purchase and install in Building 3 two Manhurin loaders which will modernize the powder loading process for 7.62mm cartridge cases and will modernize the process for attaching the cartridge case to the projectile. This effort will incorporate modern, online inspection technology to further improve production efficiency, reduce costs, and improve production safety.

INDUSTRIAL F.	ACILIT	TES COS	ST ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE			3 FND ITEM	3 END ITEM SUPPORTED MODEL				_	February 1997	
Caliber .50 Upgrade					Ammunition Items: Caliber .50 (All Types)	ns: Caliber 50	) (All Types)			
4. PROJECT NUMBER 5983331	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PRO. 19	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
	Œ			H. FACILITY						
ELEMENT OF COST		3	Ľ	1. NAME	•	Lat	ke City Arr	Lake City Army Ammunition Plant	tion Plant	
	(a)	(Q)	(0)	2. LOCATION			ġ	Independence, Missouri	Missouri	
A. CONSTRUCTION COST			0	0 a. TYPE (GOGO, GOCO, COCO)	(0000 000				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
			1,266		Title	FY &	Value	Facing	Start	Compl
:				Number		Appn	(\$ mil)		Date	Date
ä					Not Applicable					
3										
SUBTOTAL EQUIPMENT COST	<u>-</u> .		1,266							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			422 25 0	į						
F. OTHER IN-HOUSE SUPPORT COST			6	J. PRINCIPAL MILESTONES	STONES			MONTH & YEAR	_	
TOTAL FACILITY PROJECT COST			1,722		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		٠	May-96 Dec-96		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	٥	- ••	Mar-98/Mar98		
1. FACILITY PROVE-OUT COST			0		5. EQUIPMENT INSTALLATION COMPLETE	MPLETE	•	Not Applicable Dec-99		
2. MILITARY CONSTRUCTION APPN.			0		8. PROVE OUT BEGINS 7. PROVE OUT COMPLETE			Jan-00 Mar-00		
NARRATIVE EXPLANATION										

This project will convert three each 20mm high-speed priming machines and 20mm annealing capability to Caliber .50 in Building 3. In addition, this effort will procure Programmable Logic Controllers for Caliber .50 together with on-line case inspection equipment to increase production efficiency, reduce costs, and improve production safety.

INDUSTRIAL F	ACILIT	TES COS	T ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	<u></u>		1			
Renovate Building 100-101, Phase 2					High Explosive (HE) Artillery/Demolition Charges (Trinitrotoluene (TNT)/H6)	nolition Charges	(Trinitrotolu	ene (TNT)/H6)		
	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JJECT (1-8-5)				
5983333		Not Applicable	9		Not Applicable					
	FY	86 /		H. FACILITY						
ELEMENT OF COST	ΩTY	UNITCOST	TOTAL	1. NAME			lowa Arr	Iowa Army Ammunition Plant	ion Plant	
	(a)	<b>(</b> )	(0)	2. LOCATION	•			Middleto	Middletown, lowa	
A. CONSTRUCTION COST			1,077	3. TYPE (GOGO, GOCO, COCO)	, (000)				9000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Compl
				Number		Appn	(% mil)		Date	Date
2					Not Applicable					
Ŕ										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			24 65							
F. OTHER IN-HOUSE SUPPORT COST			Ö	J. PRINCIPAL MILESTONES	STONES		Ī	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,166		CONCEPT DESIGN COMPLETE     FINAL DESIGN COMPLETE     INITIAL FINAL BECIEF AMARE	c	• •	Jan-95 Jan-96		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE	2	•	Jan-96/Jan-96		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE		Not Applicable		
					7. PROVE OUT COMPLETE			Not Applicable		
NARRATIVE EXPLANATION				:						

This project will replace cast iron steam radiators, window air conditioning units with a Heating Ventilation and Air Conditioning (HVAC) system, update electrical system for computer and word processor use, provide adequate computer and telephone circuits, and replace/add new wall insulation. This is the second of a four-phase upgrade to a 56-year-old building.

£

INDUSTRIAL F	ACILIT	IES CO	ST ANAL	.YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	Load, Assemble and Pack (LAP) of Various Ammunition and Monar Hounds	no Pack (LAP)	or various A	nmunition and	February 1997 Monar Round	S.
Manufacturing Management System						to include: 40mm Demo Kit, 60/81/120mm Mortar	60/81/120mm	1 Mortar		
5983338	5. ANNUĀĒ	CAPACITY BEI	ANNUÁL CAPÁCITY BEFORE PROJECT (1-8-5) Not Applicable	JECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JECT (1-8-5)				
	FΥ	86		H. FACILITY						
ELEMENT OF COST	VTQ (8)	UNIT COST	TOTAL (c)	1. NAME 2. LOCATION	•		Milan Arr	Milan Army Ammunition Plant	Ammunition Plant	
A. CONSTRUCTION COST			1	0 3. TYPE (GOGO, GOCO, COCO)	,			,	0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
<del></del>			264	Project Number	Title	FY &	Value	Facing	Start	Compl
<b>c</b> i					Not Applicable					
ń										
SUBTOTAL EQUIPMENT COST			264							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			1,409 84 0			-				
F. OTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	STONES		*	MONTH & YEAR	_	
TOTAL FACILITY PROJECT COST			1,757		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		•	Not Applicable Jan-96		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	0	_,_	Mar-98/Mar-98 Not Applicable		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE	- •	Mar-00		
					7. PROVE OUT COMPLETE		·-·	Not Applicable		
NARRATIVE EXPLANATION										

This project will upgrade the computer hardware and software at the plant in order to improve administrative functions and reduce costs in the following typical categories: production control and planning, time and attendance, and the facilities engineering job estimating system. This effort will reduce costs, improve production efficiency, and improve compliance with Occupational Safety and Health Act (OSHA) requirements.

INDUSTRIAL F	ACILIT	IES COS	T ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	100	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					Boloary 1997	
Instrumentation to Support Ammunition Production Testing	sting				Initial Production, production acceptance and product improvements	ptance and prod	uct improveme	ants		
	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	ROJECT (1-8-5)				
985060			n/a			ı. Lı/c				
	Ы			H. FACILITY						
ELEMENT OF COST	ΩIY	UNIT COST	TOTAL	1. NAME		Yuma Proving	Ground & Abe	Yuma Proving Ground & Aberdeen Test Center	ıter	
	(a)	<b>(</b> p)	(c)	2. LOCATION		Yuma, AZ and	Aberdeen Pro	Yuma, AZ and Aberdeen Proving Center, MD		
A. CONSTRUCTION COST				3. TYPE (GOGO, GOCO, COCO)	(0000)	0000				
B. EQUIPMENT COSTS (Individual equipment cost should be			3							
specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	SOJECTS					
				Project	Title	FY&	Value	Facing	Start	Compl
<u></u>				Number		Appn	(\$ mil)		Date	Date
8										
ю́.										
SUBTOTAL EQUIPMENT COST			1400							
C. EQUIPMENT INSTALLATION COST										
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST										
F. OTHER IN-HOUSE SUPPORT COST				J. PRINCIPAL MILESTONES	TONES		2	MONTH & YEAR		
					1. CONCEPT DESIGN COMPLETE	m	•	n/a		
TOTAL FACILITY PROJECT COST			1400		2. FINAL DESIGN COMPLETE	į		n/a		
G. OTHER COSTS					INITIAL/FINAL PHOJECT AWARD     CONSTRUCTION COMPLETE	Ę	•	Apr-98		
1. FACILITY PROVE-OUT COST						OMPLETE		Aug-98		
2. MILITARY CONSTRUCTION APPN.					6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		•			
							ı			
NARRATIVE EXPLANATION										

Ammunition acceptance testing require support from diverse facilities, equipment and instrumentation. The funds at Yuma will be used to for climatic and dynamic simulation; x-ray, dimensional and chemical analysis; metal and wood fabrication support, optical, photographic, video and tracking equipment and realtime and post test data processing analysis. At Aberdeen funds will support platform refrigeration Yuma Proving Ground and Aberdeen Test Center perform and report results of production acceptance tests for ammunition end items. package to augment current large chamber climatic testing and replace aged industrial plant equipment.

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILIT	IES COS	T ANAL	YSIS (Dollar	s in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Federal Energy Management Program						Not Applicable	_			
	5. ANNUAL	CAPACITY B	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	ER PROJECT (1-8-5	5)			
5985201		Not Applicable	9		Not Applicable	able .				
	FY	86		H. FACILITY						
ELEMENT OF COST	αTY	UNIT COST	TOTAL	1. NAME		٥	/arious Arm	Various Army Ammunition Plants	on Plants	
	(a)	(b)	(c)	2. LOCATION					Multiple	
A. CONSTRUCTION COST			0	0 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			123	Project	Title	FY&	Value	Facing	Start	Compl
-				Number		Appn	(\$mil)		Date	Date
હ					Not Applicable	<del> · · ·</del>				
ć.						<del>,</del>				
SUBTOTAL EQUIPMENT COST			123							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST			31							
E. CORPS OF ENGINEERS SUPPORT COST										
F. OTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	TONES  1 CONCEPT DESIGN COMPLETE	DI ETE	-	MONTH & YEAR	•	
TOTAL FACILITY PROJECT COST			160		2. FINAL DESIGN COMPLETE	7.E		Nov-96		
					3. INITIAL/FINAL PROJECT AWARD	AWARD		Mar-98/Mar-98		
G. OTHER COSTS						ETE		Not Applicable		
1. FACILITY PROVE-OUT COST			0 0		5. EQUIPMENT INSTALLATION COMPLETE B DROVE OUT BEGINS	ION COMPLETE		Nov-00		
								Not Applicable		
NARRATIVE EXPLANATION										

Energy saving project will provide steam efficiency at Radford Army Ammunition Plant by the installation of automatic blowdown controls for all five boilers.

INDUSTRIAL FA	ACILIT	IES COS	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	1003	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	Load, Assemble, and Pack (LAP) of Primers, Detonators, Detays	and Pack (LAP)	or Primers, D	r etonators, Det	ays,	
Production Support and Equipment Replacement					Fuzes and Volca	ig M98 Detonat	or, M53 Delay	, M55 Detonate	, <u>5</u>	
4. PROJECT NUMBER 5985316	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJI	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Amiliania	OJECT (1-8-5)				
	Č	R.		H. FACILITY	enaporda inch					
ELEMENT OF COST	ΔI	3	TOTAL	1. NAME		Lo	e Star Arm	Lone Star Army Ammunition Plant	tion Plant	
	(a)	(p)	(2)	2. LOCATION				Texarkan	Texarkana, Texas	
A. CONSTRUCTION COST			1,059	1,059 a. TYPE (GOGO, GOCO, COCO)	(0000)				GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	IOJECTS					
			112	Project	Title	FY &	Value	Facing	Start	Compl
-				Number		Appn	(\$ mil)		Date	Date
, is					Not Applicable					
6										
SUBTOTAL EQUIPMENT COST		*	112					-		
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			53 0							
F. OTHER IN-HOUSE SUPPORT COST			Ö	J. PRINCIPAL MILESTONES	TONES		Ž	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,225		CONCEPT DESIGN COMPLETE     FINAL DESIGN COMPLETE     MITTAL SERVAL DESIGN COMPLETE     MITTAL SERVAL DESIGN COMPLETE	(	∠ı l'	Not Applicable Sep-96		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE	2	-> I	Jan-98/Jan-98		
1. FACILITY PROVE-OUT COST			00		5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE	. (	Oct-00		
2. MILITARY CONSTRUCTION APPN.			5		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		<b>&amp;</b>   <b> </b>	Not Applicable		
NARRATIVE EXPLANATION										

unknown substances. This project will also replace the sewer line in the P/Q Area; the current line has deteriorated to a point in which the flow consists mainly of groundwater which has infiltrated the line. In addition, this project provides for the construction of burning pads to prevent/eliminate soil contamination in the High Explosive Burning Ground (HEBG) Area. This project provides for the procurement of a gas chromatograph which will improve product quality and provide the capability to identify

\*

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILIT	IES COS	T ANAL	YSIS (Dollar	s in Thousands)			1. DATE F	February 1997	_
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	Load, Assemble, and Pack (LAP) of Various Ammunition and	ind Pack (LAP)	OI VARIOUS A	mmunition and		
Production Support and Equipment Replacement					Mortar Rounds to include: 40mm Demo Kit, 60/81/120mm Mortar	Omm Demo Kit	1, 60/81/12011	m Mortar		
	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
5985317		Not Applicable			Not Applicable					
	FY	86	П	H. FACILITY						
ELEMENT OF COST	ΔĮ	UNITCOST	TOTAL	1. NAME	•		Milan Am	Milan Army Ammunition Plant	tion Plant	
	(a)	(p)	(c)	2. LOCATION	'			Milan, Te	Milan, Tennessee	
A. CONSTRUCTION COST			969	696 a. TYPE (GOGO, GOCO, COCO)	(0000)				GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			1,250	Project	Title	FY &	Value	Facing	Start	Compl
				Number		Appn	(\$ mil)		Date	Date
6, 6					Not Applicable		_			
SUBTOTAL EQUIPMENT COST			1,250							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			15 89 0							
F. OTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
TOTAL FACILITY PROJECT COST			2,050		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD	6		Not Applicable Sep-96 Jan-98/Jun-98		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST			0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	MPLETE		Jul-99		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		-	Not Applicable Not Applicable		
NARRATIVE EXPLANATION										

containers, and pad printer for mortar metal containers. An automated spike setter/driver to replace a manual machine result in a benefit Project involves the purchase of the following replacement items: crimping machine for M74 Grenades, pad printer for 40mm metal containing asbestos. The age of the roofing and wall materials make them susceptible to deterioration thus causing the asbestos to to investment ratio of 4.35. Project balance consists of three environmental efforts to remove and replace roofs and wall materials become airborne, causing a health hazard.

INDUSTRIAL F.	ACILIT	IES COS	T ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	Cohman 1007	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					in and	
Production Support and Equipment Replacement	j				Propellants and Explosives (Nitroglycerin and Nitrocellulose)	es (Nitroglyceri	n and Nitroce	lulose)		
4. PROJECT NUMBER 5985326	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Amilicable	OJECT (1-8-5)				
	Ě	86	Γ	H. FACILITY						
ELEMENT OF COST	ΔT	UNIT COST	TOTAL	1. NAME		č	adford Arm	Badford Army Ammunition Plant	ion Plant	
	(a)	<b>(</b> 2)	(2)	2. LOCATION				Radford	Radford, Virginia	
A. CONSTRUCTION COST			456	3. TYPE (GOGO, GOCO, COCO)	(0000)				0005	
B. EQUIPMENT COSTS (Individual equipment cost should be										
Specified for all equipment costing more than \$0.5 million)				I. HELAIED PROJECTS	OJECTS					
•			1,901	Project	Title	FY &	Value	Facing	Start	Compl
				Number		Appn	( <b>S</b> mil)		Date	Date
Q.					Not Applicable					
6										
SUBTOTAL EQUIPMENT COST			1,901							
C. EQUIPMENT INSTALLATION COST			752							
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			58						•	
F. OTHER IN-HOUSE SUPPORT COST			O	J. PRINCIPAL MILESTONES	TONES		3	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			3 167		1. CONCEPT DESIGN COMPLETE		•	May-96		
						٥	12	Mav-98/Mav-98		
G. OTHER COSTS								Aug-00		
2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE	14	Sep-00		
					7. PROVE OUT COMPLETE		.121	Not Applicable		
		1								
This are in the second of the		11-11-	i.							

Decontamination Burning Ground and Air Curtain Destructor Area, update the fire alarm system, and upgrade instrumentation for the analytical laboratory. It will replace 5 oil circuit reclosers at the Cast and Bioplant Primary Distribution Substations, procure and install a remote and automated slurry mix wringer in Building 9304, replace a chiller at the Research, Development and Acquisition Information System Agency (RDAISA), and replace strong alcohol tanks at Tank Farm 2546. Further, this effort will provide gauging on solvent area tanks 3546, 2546, and 6203. This project involves the following efforts: Upgrade Halon 1301 Fire Suppression Systems, implement surface water management at the Waste

Z

INDUSTRIAL F	ACILIT	IES C(	ST ANA	LYSIS (Dolla	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITE	3. END ITEM SUPPORTED MODEL	<u></u>					
Production support and Equipment Replacement					Research Department Explosive (RDX)/High Melt Explosive (HMX)	sive (RDX)/High	Melt Explosi	ve (HMX)		
4. PROJECT NUMBER	5. ANNUĀL	CAPACIT	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	JECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JJECT (1-8-5)				
5985328		Not Applicable	able		Not Applicable					
	FY	86		H. FACILITY						
ELEMENT OF COST	QTY	UNIT COST	ST TOTAL	1. NAME		Ĕ	ston Arm	Holston Army Ammunition Plant	ion Plant	
	(a)	9	(c)	2. LOCATION	•		ž	Kingsport, Tennessee	eesseuu	
A. CONSTRUCTION COST			564	564 3. TYPE (GOGO, GOCO, COCO)	. (0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	ROJECTS					
			1,147		Title	FY &	Value	Facing	Start	Compl
<b>;</b>				Number		Appn	(\$ mil)		Date	Date
લેં					Not Applicable					
SUBTOTAL EQUIPMENT COST			1,147							
C. EQUIPMENT INSTALLATION COST			276							
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			88							
F. OTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	STONES		<b> </b> ≝	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			2.051		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		ı	May-96		
					3. INITIAL/FINAL PROJECT AWARD	٥	15	Jan-98/May-98		
G. OTHER COSTS							1 1	Jul-00		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	OMPLETE	ΙŹ	Sep-00 Not Applicable		
					7. PROVE OUT COMPLETE		121	Not Applicable		
NAHRATIVE EXPLANATION								!		

Project removes 11 Polychlorinated Biphenyl filled transformers/rectifiers (T/R's) and provides for installation of new T/Rs; provides for provides hazard vapor release notification and laser particle size analyzer for explosive particle measurement, and provides accidental release alarms in Area A. Three of the 7 items have environmental benefits - one is a Class 3 "Must Fund". replace of one nitric acid product tank, replaces steam engine with electric motors, installs heat exchangers on Maggie Units 5 and 6,

INDUSTRIAL FA	ACILIT	IES COS	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fe	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	7					
Production Support and Equipment Replacement					Ammunition Items: 5.56mm, 7.62mm, .50 Caliber, 20mm	6mm, 7.62mm,	.50 Caliber, 2	Omm		
4. PROJECT NUMBER 5985332	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Analicable	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
	À			H. FACILITY	אסן אלאטופסוום					
ELEMENT OF COST	δŢ	3	TOTAL	1. NAME		Lak	e City Arr	Lake City Army Ammunition Plant	ion Plant	
	(a)	(b)	(c)	2. LOCATION	•		- Jug	Independence, Missouri	Missouri	
A. CONSTRUCTION COST			304	304 3. TYPE (GOGO, GOCO, COCO)	. (oco)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			1,149		Title	FY &	Value	Facing	Start	Compl
<i>;</i>				Number		Appn	(\$ mil)		Date	Date
. Ci					Not Applicable	.,,				
6										
SUBTOTAL EQUIPMENT COST			1,149							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			571 53 0							
F. OTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	STONES		=	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			2,077		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. MITTAL TRANSPORTED TO THE PROPERTY OF T	ć	<b>,</b>	Not Applicable Sep-96		
G. OTHER COSTS						<b>a</b>	••••	Jan-98/Jan-99 Oct-99		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE	<b>-</b> •	Jan-00 Not Applicable		
					7. PROVE OUT COMPLETE		•	Not Applicable		
NABBATIVE EXBI ANATION										

and packing of .50 caliber cartridges; constructs a dewatering unit for use of the industrial wastewater treatment plant, building 93. Project also upgrades and retrofits building 2, 20-round carton pack machine with automated carton and separator feeder and procures and installs an 8-station Computer Numerically Controlled (CNC), horizontal single turret lathe with 1-1/16 inch bar capacity, programmable slides at spindle nose, and 480 volt, NARRATIVE EXPLANATION

This project includes rebuild of primer handling systems of the primer insert submodules of Lines 2, 3, and 5; provides and installs a replacement industrial waste line inside and leading from building 1; purchases and installs cartridge feeders with conveyors and buggy dumps for final inspection 3 phase motor.

Item No. 48 Page 23 of 51

ŧ

ultraviolet deluge system, a scrubber for oxides of sulfur emission, and a universal measuring machine. Project will also replace the following items: This project will purchase and install a super critical fluid extractor for environmental sampling, a mass spectrometer for explosive evaluation, an optical comparator, obsolete computer aided drafting hardware, and chiller containing ozone depleting chemicals. Six of the ten items have environmental benefits - one is an environmental Class 1 "Must Fund".

Seb5342   Sention   Sent	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILIT	IES COS	T ANAL	YSIS (Dolla	rs in Thousands)			1. DATE		
120mm (M928, m934), 155mm (M107, M795  120mm (M928, m934), 155mm (M107, M795  12 LOCATION  (a) (b) (c) 2. LOCATION  (a) (b) (c) 3. TYPE (GOG0, GOC0, COC0)  1. RELATED PROJECTS  443 Project Not Applicable  0. PRINCEPL MILESTONES  1. CONCEPT DESIGN COMPLETE  2. FINAL DESIGN COMPLETE  3. FINAL DESIGN COMPLETE  3. FINAL DESIGN COMPLETE  443 FINAL DESIGN COMPLETE  3. FINAL DESIGN COMPLETE  443 FINAL DESIGN COMPLETE  443 FINAL DESIGN COMPLETE  5. FINAL DESIGN COMPLETE  6. PROVE OUT COMPLETE  7. PROVE OUT COMPLETE  8. FINAL DESIGN COMPLETE  9. FINAL DESIGN COMPLETE  1,275	2. PROJECT TITLE/TYPE			3. END ITEM	SUPPORTED MOD	,				February 1997	
6. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)  Not Applicable  1. TOTAL  1. NAME  (a)  (b)  1. TOTAL  1. TRELATED PROJECTS  1. TRELATED PROJECTS  1. CONCEPT DESIGN COMPLETE  1. APPLICATION  (b)  1. TRELATED PROJECTS  1. CONCEPT DESIGN COMPLETE  2. FINAL DESIGN COMPLETE  3. INITIALFINAL PROJECT  443  443  445  4443	Support and Equipment Replacement						155mm (M	107 M706 MG	(36)		
FY   SE	5985342	5. ANNUAL	CAPACITY BE Not Applicable	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER	PROJECT (1-8-5	10, 11, 11, 11, 11, 11, 11, 11, 11, 11,	(63)		
Carporation   Capper   TOTAL   1. NAME     Capper   Capper   TOTAL   1. NAME     Capper   Capper   TOTAL   1. TOTAL     Capper   Total   Total     Capper   Total   Total     Capper   Total   Total     Capper   Total   Total     Capper   Capper   Total     Capper   Capper   Total     Capper   Capper   Total     Capper   Capper   Capper   Capper     Capper   Capper   Capper   Capper     Capper   Capper   Capper   Capper     Capper   Capper   Capper   Capper     Capper   Capper   Capper   Capper   Capper     Capper   Capper   Capper   Capper   Capper   Capper   Capper     Capper   Cappe		Œ	88		H. FACILITY	NOT Applicable					
1 T03 3. TYPE (GOSO, GOCO, COCO)  1 RELATED PROJECTS  1 RELATED PROJECTS  1 RELATED PROJECTS  1 RELATED PROJECTS  1 RELATED PROJECTS  1 Relater	ELEMENT OF COST	οīγ	UNITCOST	TOTAL	1. NAME		Ø	cranton Arr	ny Ammunit	ion Plant	
1. RELATED PROJECTS  1. RELATED PROJECTS  1. RELATED PROJECTS  Appril (\$million)  Add		(8)	(£)	(c)	2. LOCATION			Ġ,	anton Pen	anevivania	
1. RELATED PROJECTS  1. ALATED PROJECTS  1. ALATED PROJECTS  1. ALATED PROJECTS  1. ALATED PROJECTS  1. CONCEPT DESIGN COMPLETE  1.275  1. CONCEPT DESIGN COMPLETE  1.275  2. FINAL DESIGN COMPLETE  3. INTAL/FINAL DESIGN COMPLETE  4. CONSTRUCTION COMPLETE  4. CONSTRUCTION COMPLETE  5. PROVE OUT SEGINS  6. PROVE OUT SEGINS  1. PROVE OUT COMPLETE  1. ALATED SEGINS  1. ALATE	A. CONSTRUCTION COST			703	3. TYPE (GOGO, G	(000,000)		3	dilicin, i dil	GOCO	
FELATED PROJECTS	B. EQUIPMENT COSTS (Individual equipment cost should be									200	
## A Project Tritle FY & Value Facing    Number	specified for all equipment costing more than \$0.5 million)		-		I. RELATED P	ROJECTS					
Not Applicable   Appn (\$ mi)				443	Project	Title	FY &	Value	Facing	Start	Compl
### A43  ### A84  ### B1  ### B1  ### B1  ### B1  ### B1  ### B1  ### B2  ### B2  ### B2  ### B3  ###  ###					Number		Appn	(\$ mil)		Date	Date
### ### ### ### ### ### ### ### ### ##	· S					Not Applicable					
# ## ## ## ## ## ## ## ## ## ## ## ## #	· ·										
## 48    0   J. PHINCIPAL MILESTONES   1. CONCEPT DESIGN COMPLETE   1,275   2. FINAL DESIGN COMPLETE   3. INITIAL/FINAL PROJECT AWARD   4. CONSTRUCTION COMPLETE   5. EQUIPMENT INSTALLATION COMPLETE   0   6. PROVE OUT BEGINS   7. PROVE OUT COMPLETE   7. PROVE OUT COMPLET	SUBTOTAL EQUIPMENT COST		****	443							
1, PRINCIPAL MILESTONES  1. CONCEPT DESIGN COMPLETE  2. FINAL DESIGN COMPLETE  3. INITIAL/FINAL PROJECT AWARD  4. CONSTRUCTION COMPLETE  5. EQUIPMENT INSTALLATION COMPLETE  7. PROVE OUT COMPLETE	C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			81 48 0							
1, CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 0 5. EQUIPMENT INSTALLATION COMPLETE 0 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE	F. OTHER IN-HOUSE SUPPORT COST				J. PRINCIPAL MILE	STONES		]	ONTH & VEAD		
3. INITIAL/FINAL PROJECT AWARD 3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 0 5. EQUIPMENT INSTALLATION COMPLETE 0 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE	TOTAL FACILITY PROJECT COST		<del>-</del>	1,275		1. CONCEPT DESIGN COMPLE 2. FINAL DESIGN COMPLETE	<b>=</b>	. —·	Not Applicable Nov-96		
6. PROVE OUT COMPLETE 7. PROVE OUT COMPLETE	G. OTHER COSTS					3. INITIAL/FINAL PROJECT AW  4. CONSTRIICTION COMPLETE	ARD =	. ~ .	Apr-98/May-98		
	1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION 6. PROVE OUT BEGINS	COMPLETE	, ,,	Jun-00		
						7. PROVE OUT COMPLETE		.121	lot Applicable		

This project will rehabilitate the Forge Shop cooling tower which has gradually deteriorated to a condition of increasing nonreliability and disfunction. It rooms to allow for improved press operator noise protection and to meet Army safety criteria. It will provide guarding for Robot-Manipulators to meet occupational Safety and Health Administration (OSHA) regulations. This effort will also provide for spill containment within the confines of the point Storage Area to avoid spill flow to the manufacturing areas and avoid drainage into the wastewater collection system. will provide fire protection to areas of combustible material storage by installing a sprinkler system. This effort will construct custom built enclosure

r

## FY 1999

INDUSTRIAL FAC	ACILIT	IES COS	T ANA	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	Cabridge 1007	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					ecidaly (33)	
Overhead Electrical Service, Phase II					Propellants and Explosives (Nitroglycerin and Nitrocellulose)	es (Nitroglycerin	and Nitrocel	(esoln		
4. PROJECT NUMBER 5992783	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PRO.	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JECT (1-8-5)				
	Ł	8		H. FACILITY						
ELEMENT OF COST	ΔT	UNIT COST	TOTAL	1. NAME		Ra	dford Arm	Radford Army Ammunition Plant	tion Plant	
	(B)	(p)	(2)	2. LOCATION				Radford	Radford, Virginia	
A. CONSTRUCTION COST			429	429 3. TYPE (GOGO, GOCO, COCO)	. (0000 '00				GOC0	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	IOJECTS					
			0	Project	Title	FY&	Value	Facing	Start	Compl
				Number		Appn	( <b>\$</b> mil)		Date	Date
દે	•			5982783	Safety - Overhead Electrical Service, Phase 1	FY 98	.837	Š.	Mar-98	96-voN
SUBTOTAL EQUIPMENT COST			0						····	
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			10							
F. OTHER IN-HOUSE SUPPORT COST			2	J. PRINCIPAL MILESTONES	TONES		Ž	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			467		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL ACIDAL DESIGN COMPLETE 4. INITIAL ACIDAL DESIGN COMPLETE 5. INITIAL ACIDAL DESIGN COMPLETE 6. INITIAL DESIGN COMPLETE 6. INITIAL		1 43	Aug-96 Nov-97		
G. OTHER COSTS						5	≥1	Mar-99/Mar-99		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE	IZIZI	Not Applicable Not Applicable		
					7. PROVE OUT COMPLETE		21	Not Applicable		
NARRATIVE EXPLANATION										T

The purpose of this project is to bring the exterior electrical power and signal distribution systems into compliance with Army safety criteria in the following explosive facility areas: Nitroglycerine-1 (NG-1), Premix Number 1, 1st Rolled Powder Area, and Green Lines.

2

Environmental laws and regulations demand that constant surveillance be maintained to ensure operations meet environmental standards. These efforts restore lands that have been contaminated by Department of Army activities, replace equipment, and expand processes to meet the requirements of various environmental laws and regulations. Plant breakout on following page.

	INDUSTRIAL	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	TANALYSIS (Dollar	s in Thousands,		1. DATE
2. PROJECT TITLE/TYPE		3	3. END ITEM SUPPORTED MODEL			rebidary 1997
Environ	Environmental at Ammunition Plants				Various	
4. PROJECT NUMBER 50	5992910	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	ORE PROJECT (1-8-5)	6. ANNUAL CAPACITY Not Ap	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	:
	AM	AMMUNITION PRODUCTION BASE SUPPORT	ON BASE SUPPORT	PROJEC	PROJECT 5992910	
DATE: February 1997	1997					
INSTALLATION	PROJECT TITLE			CLASS	DOLLARS (\$000)	
Radford AAP	Dedicated Grou	Dedicated Groundwater Well Pumps	v	m	.201	
Radford AAP	Utilities Data	Utilities Data Acquisition Outfalls	alls	m	198	
•			TOTAL		.399	

Ξ

INDUSTRIAL FA	ACILIT	IES COS	ST ANAL	.YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	1					
vironmental - Plant Wide Diking					Research Department Explosive (RDX)/High Melt Explosive (HMX)	osive (RDX)/Hig	th Melt Explos	ive (HMX)		
4. PROJECT NUMBER 5992923	5. ANNUAL	CAPACITY BEF Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
	Ł	8		H. FACILITY						
ELEMENT OF COST	ΩTY	UNIT COST	TOTAL	1. NAME		Ĩ	olston Arn	Holston Army Ammunition Plant	tion Plant	
	(a)	(p)	(c)	2. LOCATION	-		3	Kingsport, Tennessee	eesseuue	
A. CONSTRUCTION COST			2,520	2,520 3. TYPE (GOGO, GOCO, COCO)	(0000)				GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)			0	I. RELATED PROJECTS	OJECTS					
				Project	Title	FY &	Value	Facing	Start	Compl
-				Number		Appn	(\$ mil)		Date	Date
67.				5982923	Environmental - Plant Wide	FY 98	3.457	õ	Jan-98	Sep-99
·6					a de la companya de l					
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 55 151							
F. OTHER IN-HOUSE SUPPORT COST			13	J. PRINCIPAL MILESTONES	STONES		=	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			2,739		<ol> <li>CONCEPT DESIGN COMPLETE</li> <li>FINAL DESIGN COMPLETE</li> <li>INITIAL/FINAL PROJECT AWARD</li> </ol>	<u>e</u>	. , ,	Sep-96 Feb-97 Jan-99/Jan-99		
G. OTHER COSTS			c			1	•	Sep-00		
2. MILITARY CONSTRUCTION APPN.			0 0		S. EUDITMEN INSTALLATION COMPLETE  B. PROVE OUT BEGINS  7. PROVE OUT COMPLETE	JMPLEIE		Not Applicable Not Applicable Not Applicable		
NARRATIVE EXPLANATION										

This project completes efforts required to provide acid resistant diking for nitric acid tanks, spill protection at railroad and truck unloading/loading stations, and appropriate diking at other active chemical tanks located throughout the plant. This project is considered an environmental class 3 "Must Fund".

INDUSTRIAL FAC	ACILITIE	soo s	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE		ľ	3. END ITEM	3. END ITEM SUPPORTED MODEL					ocides y 100	
Erwironmental - Acid Sewer System Upgrade					Propellants and Explosives (Nitroglycerin and Nitrocellulose)	es (Nitroglycerir	and Nitroce	(esolni		
4. PROJECT NUMBER 5992925	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	CAPACITY BEI Not Applicable	FORE PROJE	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JJECT (1-8-5)				
	È	- 66	I	H FACILITY	elosoldo los					
ELEMENT OF COST		UNIT COST	TOTAL	1. NAME		R	adford Arm	Radford Army Ammunition Plant	ion Plant	
	(a)	<b>@</b>	0	2. LOCATION	•			Radford	Radford, Virginia	
A. CONSTRUCTION COST			5,070	5,070 3. TYPE (GOGO, GOCO, COCO)					0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Сотр
<u>.</u>				Number		Appn	(\$ mil)		Date	Date
ο <b>ί</b>					Not Applicable					
ŕ								·	-	
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST		·	113							
E. CORPS OF ENGINEERS SUPPORT COST			90 g							
F. OTHER M-HOUSE SUPPORT COST			c N	), PRINCIPAL MILESTONES 1, CON	TONES  1. CONCEPT DESIGN COMPLETE		2	MONTH & YEAR	-	
TOTAL FACILITY PROJECT COST			5,512		2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD	٥		Nov-97		
G. OTHER COSTS								Dec-90		
1. FACILITY PROVE-OUT COST			0		5. EQUIPMENT INSTALLATION COMPLETE	MPLETE	14	Not Applicable		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		12121	Not Applicable Not Applicable		
NARRATIVE EXPLANATION										

This project provides for remediation of the acid sewer system. The primary means of rehabilitation will be line replacement or line reconstruction without excavation using cured in-place plastic resin. Remediation will also include the disposal of contaminated soil or other wastes. This project is considered an Environmental Class 2 "Must Fund".

t

Environmental Protection Agency (EPA). The plant has received notices of violation for their inability to meet the EPA requirements. This This project provides for the construction of an oxidation ditch sewage treatment plant to replace the existing 50-year-old trickling filter plant. Due to age and obsolete technology used, the current system is not capable of meeting the effluent requirements of the project is considered an Environmental Class 2 "Must Fund".

INDUSTRIAL FA	ACILIT	IES COS	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	00	
2. PROJECT TITLE/TYPE			3 END ITEM	3 END ITEM SUPPOBITED MODE					rebruary 1997	
Environmental - Rehabilitation of Sewage Collection Lines	nes				L Load, Assamble and pack of Various Munitions: Moders 40mm Demo Kits	rione Munitions	" Modere An	Demo Kite		
	5. ANNUAL	NNNUAL CAPACITY BEFORE PROJECT (1-8-5)	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)	e, Moriais, 10	mit, Cellico Mits		
589Z844		ž			Not Applicable					
	Ы	66		H. FACILITY						
ELEMENT OF COST	QTY	UNIT COST	TOTAL	1. NAME			Milan Am	Milan Army Ammunition Plant	tion Plant	
	(a)	ê	<u> </u>	2. LOCATION				Milan Te	Milan Tennessee	
A. CONSTRUCTION COST			5,404	5,404 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B BOIIDMENT COSTS (Individual contractions)										
specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Compl
:				Number		Appn	(\$ mil)		Date	Date
¢i.				5992943	Environmental - Upgrade	FY 99	4.064	Š	Jan-99	Jul-00
6					Sewage Treatment Plant					
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST			0					*		
E. CORPS OF ENGINEERS SUPPORT COST			324							
F. OTHER IN-HOUSE SUPPORT COST			27	J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
					1. CONCEPT DESIGN COMPLETE			96-unf		
IOIAL FACILITY PROJECT GOST			5,876		2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD	ç	, 13	May-97		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE	)	e 1	May-99/May-99	_	
1. FACILITY PROVE-OUT COST			0		5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE	14	Not Applicable		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		16161	Not Applicable Not Applicable		
NARRATIVE EXPLANATION										

This project will rehabilitate existing sewage collection system by replacing manholes and sewer collection lines, thus reducing inflow and infiltration. The existing system has frequent breaks causing heavy maintenance. During heavy rains the plant has experienced infiltration in excess of five times the normal flow. This sudden surge inflow causes the treatment facility to be over stressed resulting in violations to the facility's discharge permit. This effort is considered an Environmental Class 2, "Must Fund".

INDUSTRIAL FA	ACILIT	IES COS	TANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	7007	
									ebruary 1997	
2. PROJECT TITLE/TYPE Environmental-Acid A Industrial Waste Water Equalization/Spill	ill Ponds to		3. END ITEM	3. END ITEM SUPPORTED MODEL			•			
Concrete Tanks			:		Research Department Explosive (RDX)/High Melt Explosive (HMX)	osive (RDX)/Hiç	gh Meit Explos	sive (HMX)		
	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
5992994		ž			Not Applicable					
	Œ	8		H. FACILITY						
ELEMENT OF COST	ΔŢ	UNIT COST	TOTAL	1. NAME	•	ı	tolston Arr	Holston Army Ammunition Plant	ion Plant	
	(a)	(g)	(c)	2. LOCATION	_ '		¥	Kingsport, Tennessee	eesseuu	
A. CONSTRUCTION COST			1,697	1,697 a. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Compl
-				Number		Appn	(\$ mil)	,	Date	Date
7					Not Applicable					
гi										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST			0							
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			98 102							
F. OTHER IN-HOUSE SUPPORT COST			œ	J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
					1. CONCEPT DESIGN COMPLETE		·	Aug-95		
TOTAL FACILITY PROJECT COST			1,845		2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD	Đ		Nov-97 Jan-99/Jan-99		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE			Jul-00		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN			00		<ol> <li>EQUIPMENT INSTALLATION COMPLETE</li> <li>PROVE OUT BEGINS</li> </ol>	OMPLETE	•	Not applicable		
			•		7. PROVE OUT COMPLETE		. •	Not applicable		
NARRATIVE EXPLANATION										

This project will replace two clay lined ponds with concrete tanks. Clay lining is not adequate to prevent groundwater contamination by the industrial wastewater in the ponds. If the ponds contaminate groundwater, the groundwater could contaminate the sough fork of the Holston river which flows about 50 feet from the ponds. This project is considered an Environmental Class 3, "Must Fund".

continuation of construction design criteria, equipment and construction concept and final design, process design specifications, procurement packages, Impact Statement (EIS), and other design related efforts allowable under existing regulations deemed necessary to assure efficient and timely execution design reviews, design related analyses, preparation and incorporation of engineering change proposals, preparation of environmental evaluation to determine if a categorical exclusion to the requirement for an environmental assessment (EA) can be made, preparation of the EA or Environmental This project will provide the annual funding increment for the Industrial Facilities (IF) Program. These funds are used for the initiation and/or of facility projects.

Item No. 48 Page 35 of 51

ž.

Exhibit P-25 Industrial Facilities Cost Analysis

INDUSTRIALF	ACILIT	TES COS	T ANAL	.YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Environmental - Correct Defects in Equalization Tanks					Propellants and Explosives (Nitroglycerin and Nitrocellulose)	ss (Nitroglycerin	and Nitroce	(liulose)		
4. PROJECT NUMBER 5993313	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JECT (1-8-5)				
	Œ	8		H. FACILITY						
ELEMENT OF COST	ξō	3	TOTAL	1. NAME		R	adford Arn	Radford Army Ammunition Plant	ion Plant	
	(a)	(b)	(c)	2. LOCATION	•			Radford	Radford, Virginia	
A. CONSTRUCTION COST			1,273	1,273 3. TYPE (GOGO, GOCO, COCO)	. (ococo)				9000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	oJECTS					
-			0	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl
					Not Applicable					
6										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 28 76							
F. OTHER IN-HOUSE SUPPORT COST			7	J. PRINCIPAL MILESTONES	TONES		2	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,384		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL FINAL PROJECT AWARD	,	· •-	Jul-96 Oct-97		
G. OTHER COSTS							-	Mar-00		
1. FACILITY PROVE-OUT COST			00			MPLETE		Not Applicable		
2. MILITARY CONSTRUCTION APPN.					6. PHOVE OUT COMPLETE		, - ,	Not Applicable		
NARRATIVE EXPLANATION										

Equalization Basin. Because of leaks in the current liner, the facility cannot be used. Migration of acidic wastewater which contains Nitrocellulose (NC) fines/particles has resulted in the deterioration of concrete tanks and the deposition of NC fines/particles in confined This project provides for replacement of the leaking high density polyethylene liner system with a stainless steel liner at the Waste Acid spaces which are inaccessible for cleaning. This project is considered an Environmental Class 1 "Must Fund".

INDUSTRIAL FA	ACILIT	IES COS	TANAL	.YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	Fobuses 1007	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					edidary 1337	
Safety - Replace Natural Gas Line					Propellants and Explosives (Nitroglycerin and Nitrocellulose)	res (Nitroglyceri	n and Nitroce	llulose)		
4. PROJECT NUMBER 5993314	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Apolicable	OJECT (1-8-5)				
	Œ	88		H. FACILITY						
ELEMENT OF COST	ΔI	UNITCOST	TOTAL	1. NAME		ä	adford Am	Radford Army Ammunition Plant	tion Plant	
	(a)	(Q)	(0)	2. LOCATION				Radford	Radford, Virginia	
A. CONSTRUCTION COST			3,984	3,984 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	-
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	IOJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Compl
				Number		Appn	(\$ mil)		Date	Date
Zi.					Not Applicable	· · · ·				
ń										
SUBTOTAL EQUIPMENT COST			0					·		
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 89 239						* 180 E 11 - E 1	
F. OTHER IN-HOUSE SUPPORT COST			6	19 J. PRINCIPAL MILESTONES	TONES		₹	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			4,331		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL SENAN DESIGN AMARDO 4. INITIAL SENAN DESIGN AMARDO 5. INITIAL SENAN DESIGN AMARDO 6. INITIAL SENAN DESIGN SENANDO 6. INITIAL SENANDO 6. INIT	<b>c</b>	• •	Jun-97 Nov-97		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE	2	-,	Dec.00		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	OMPLETE	12121	Not Applicable Not Applicable		
					/. PHOVE OUT COMPLETE		<b>~</b> 1	Not Applicable		
NARRATIVE EXPLANATION										Ī

This project will assure reliable natural gas service to the plant production and waste propellant incineration operations and correct safety deficiencies. This project provides for replacement of an estimated 21,000 linear feet of natural gas line piping. It further provides for the replacement of retrofit cathodic protection on an additional 14,500 linear feet of natural gas line piping.

INDUSTRIAL F	ACILIT	TES COS	ST ANAL	YSIS (Dollar	ACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE			A END TEM	S END ITEM SUPPOPTED MODE					February 1997	
Infrastructure - Replace Raw Water Supply Line, Building 408 to Building 409	to Building			SOLICONIED MODE	L Propellants and Explosives (Nitrodivesrin and Nitrocellulose)	ives (Nitroglyce	rin and Nitroce	(lulose)		
4. PROJECT NUMBER	5. ANNUAL	S. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	EFORE PROJ	ECT (1-8-5)	IS ANNITAL CAPACITY AFTED DOC IECT (4 6 5)	O IECT (1 6 E)				
5993322		Not Applicable	<u>.</u>		Not Applicable	100EC1 (1-8-3)				
	M	66		H. FACILITY						
ELEMENT OF COST	ΩTA	UNITCOST	TOTAL	1. NAME		Œ	ladford Am	Radford Army Ammunition Plant	tion Plant	
	(a)	(b)	(c)	2. LOCATION				Radford	Radford, Virginia	
A. CONSTRUCTION COST			1,587	1,587 3. TYPE (GOGO, GOCO, COCO)	(0)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			0	Project	Tills	2	1		Ċ	
÷.				Number		Appn	Value (\$ mil)	Facing	Start	Compl
ri.					Not Applicable					
ń										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			36 95 95							
F. OTHER IN-HOUSE SUPPORT COST			œ	J. PRINCIPAL MILESTONES	TONES		]=	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,726		CONCEPT DESIGN COMPLETE     FINAL DESIGN COMPLETE     INITIAL FINAL PROJECT AWARD	5		Jul-96 Nov-97		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE	į	-1	Mar-00		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE  8. PROVE OUT BEGINS  9. PROVE OUT DECINE	OMPLETE	12121	Not Applicable Not Applicable		
					7. PROVE OUI COMPLETE		-1	Not Applicable		
NARRATIVE EXPLANATION										

The purpose of this project is to provide an uninterrupted water supply for plant operations. A failure in the existing line would stop all production in the main plant area. This effort will replace approximately 4,200 feet of 36-inch raw water line from the River Pump House (Building 408) to the Filter Plant (Building 409). This project will also include the installation of new piping to connect the 36-inch line to the existing 30-inch line

INDUSTRIAL F	FACILI	TIES CO	ST ANAL	.YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	Fahruan 1007	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPOBTED MODEL					coldary 1931	
Consolidate Explosive Facility					Research Department Explosive (RDX)/High Melt Explosive (HMX)	osive (RDX)/Hig	h Meit Explos	ive (HMX)		
4. PROJECT NUMBER	5. ANNUA	CAPACITY L	ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1.9.5)	O IECT (1.8.5)				
5993327		Not Applicable	ble		Not Applicable	10000				
	FY	66 A		H. FACILITY						
ELEMENT OF COST	QΤΥ	UNIT COST	r TOTAL	1. NAME		Ī	olston Arn	Holston Army Ammunition Plant	tion Plant	
	(B)	(p)	(c)	2. LOCATION			¥	Kingsport, Tennessee	ennessee	
A. CONSTRUCTION COST			0	0 a. TYPE (GOGO, GOCO, COCO)	(0000)				GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				PEI ATEN BOO IECTS	O IEOTE					
					50550					
			407		Title	FY &	Value	Facing	Start	Compl
-				Number		Appn	(S mil)		Date	Date
ci.					Not Applicable					
ő										
SUBTOTAL EQUIPMENT COST			407						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
C. EQUIPMENT INSTALLATION COST			523							
E. CORPS OF ENGINEERS SUPPORT COST			PO							
F. OTHER IN-HOUSE SUPPORT COST			24	24 J. PRINCIPAL MILESTONES	TONES		ľ	MONTH & YEAR		
TOTAL EACH ITY BOOLENT COST		*****	•		1. CONCEPT DESIGN COMPLETE		•	Jul-97		
			30,	_	2. FINAL DESIGN COMPLETE  3. INITIAL/FINAL PROJECT AWARD	٥		Nov-96 Dec-98/Dec-98		
G. OTHER COSTS								Vot Applicable		
2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	OMPLETE	•	Dec-99		
					7. PROVE OUT COMPLETE		• •	Feb-00		
NARRATIVE EXPLANATION										

This project is Phase 1 of 2 that will consolidate the explosive operations to Lines 5 and 6. Phase 1 upgrades the Process Logic Controller (PLC) in Building D-5, adds kettle dry to Building L-5, and relocates the Sweco Filter to Building G-6.

INDUSTRIAL F.	ACILIT	IES COS	T ANAL	.YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Stores, Tool/Gage, and Machine Shop Consolidation					Ammunition Items: 7.62mm Cartridges, .50 Caliber (All Types)	nm Cartridges,	.50 Caliber (Al	i Types)		
4. PROJECT NUMBER	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Amilicable	FORE PRO	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
000000				AND DEADURA	Not Applicable					
ELEMENT OF COST	ΔT	3	TOTAL	n. FACILITY 1. NAME		La	Lake City Army Ammunition Plant	iy Ammuni	tion Plant	
	(a)	(Q)	(c)	2. LOCATION	•		Jug	Independence, Missouri	, Missouri	
A. CONSTRUCTION COST			0	0 з. туре (вово, восо, сосо)	(0000)				3000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)			945	I. RELATED PROJECTS	OJECTS					
				Project	Title	FY &	Value	Facing	Start	Compl
-				IAGIII IA		Appu	(IIII 6)		Date	Date
č.				3330	Manhurin Loader Upgrade	FY 98	2.246	N <sub>O</sub>	Mar-98	96-unf
ń				3331	Caliber .50 Upgrade	FY 98	1.722	ž	Mar-98	Mar-00
SUBTOTAL EQUIPMENT COST			945							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			204 69 0							
F. OTHER IN-HOUSE SUPPORT COST			2	5 J. PRINCIPAL MILESTONES	TONES		Ξ	MONTH & YEAR	<u>«</u>	
TOTAL FACILITY PROJECT COST			1,223		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE			Mar-96 Nov-97		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	ē	, 0, 2	Oct-98/Oct-98 Not Applicable		
1. FACILITY PROVE-OUT COST		-	0		5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE		May-00		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		12121	Not Applicable		
NARRATIVE EXPLANATION										

This project will provide adequate facilities for the transfer of stores from Building 3 into Building 12B, and relocate the tools/gages and machine shop equipment from Building 10 to Building 3. This project involves necessary renovations to Building 12B in order to accommodate the new stores mission. This renovation also consists of upgrading the electrical, mechanical, and air-conditioning system in Building 12B.

INDUSTRIAL FA	ACILITI	ES COS	TANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	Load, Assemble.	Load. Assemble, and Pack II APT of Primary, Jacobs 1935	n primars	Fi	February 1997	
ufacturing Management System					and Volcano Ite	8 Detonator, M53	Delay, and	M55 Detonator		
4. PROJECT NUMBER 5993336	5. ANNUAL (	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
	Œ	8	ſ	H. FACILITY	Not Applicable					
ELEMENT OF COST		UNITCOST	TOTAL	1. NAME		ano 1	Star Arm	Lone Star Army Amminition Plant	ion Plant	
	(a)	Đ	9	2. LOCATION				Texarkan	Texarkana Texas	
A. CONSTRUCTION COST			٥	0 3. TYPE (GOGO, GOCO, COCO)	(0000)				3000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	NO.FECTS					
			1,133	Project	Title	FY &	Value	Facing	Start	Compl
				Number		Appn	(\$ mit)		Date	Date
, <b>o</b> i					Not Applicable					
ю́										
SUBTOTAL EQUIPMENT COST	· · · · · · · · · · · · · · · · · · ·	***************************************	1,133							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			1,031 108							
F. OTHER IN-HOUSE SUPPORT COST			F	11 J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & VEAD		
TOTAL FACILITY PROJECT COST			2,283		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		ZI	Not Applicable Nov-97		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD	Q	ı≥ı	Mar-99/Mar-99		
1. FACILITY PROVE-OUT COST		**************************************	0			MPLETE	ΖĮ	Not Applicable		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		IZIZ	Not Applicable		
							:1			
NARRATIVE EXPLANATION										

This project will upgrade Lone Star Army Ammunition Plant's computer hardware and software in order to improve administrative functions and reduce costs in the following typical categories: production control and planning, time and attendance, and the facilities engineering job estimating system. This effort will reduce costs, improve production efficiency, and improve compliance with Occupational Safety and Health Act (OSHA) requirements.

z

INDUSTRIAL FA	ACILIT	IES COS	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLETYPE  Froitnamental: Fynthetva Waste Incinerator (FWIN House	900		3. END ITEM	3. END ITEM SUPPORTED MODEL						
enprocess season manner (Entry Opgia	acce				Ammunition flems: 5.56mm, 7.62mm, .50 Caliber, 20mm	6mm, 7.62mm,	.50 Caliber, 2	Dmm		
4. PROJECT NUMBER 5993337 5.	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PROJ 8	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JECT (1-8-5)				
	È	8		H. FACILITY						
ELEMENT OF COST	ΩTΛ	UNIT COST	TOTAL	1. NAME		Ľak	e City Arm	Lake City Army Ammunition Plant	ion Plant	
	(a)	(Q)	(c)	2. LOCATION	•		Inde	Independence, Missouri	Missouri	
A. CONSTRUCTION COST			223	223 3. TYPE (GOGO, GOCO, COCO)	. (0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			528	Project	Title	FY &	Value	Facino	Start	Compl
-				Number		Appn	(\$ mil)	n	Date	Date
ď					Not Applicable					
ಣ										
SUBTOTAL EQUIPMENT COST			528							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			481 75 0							
F. OTHER IN-HOUSE SUPPORT COST			0	0 J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & YEAR		İ
TOTAL FACILITY PROJECT COST			1,307		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		1 1	Jul-97 Aug-97		
G. OTHER COSTS					INITIAL/FINAL PHOJECT AWARD     CONSTRUCTION COMPLETE	<b>a</b>	21.€	Jan-98/Jan-98 Not Applicable		
1. FACILITY PROVE-OUT COST  MILITARY CONSTRUCTION APPN			00		5. EQUIPMENT INSTALLATION COMPLETE	MPLETE	1 )4	Jul-98		
			5		7. PROVE OUT COMPLETE		-1-1	Not Applicable		
HADDATHE EVDI AMATONI										

This project will purchase and install a wet scrubber for Building 97 - Explosive Waste Incinerator and provide installation of a structure to encompass the retort. Project also includes a trial burn test to ensure adequate control of fugitive emissions and renewal of air permit. This project is considered a Class 2, "Must Fund".

INDUSTRIAL F.	ACILIT	TES COS	ST ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fe	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	1					
Manufacturing Management System, Phase 1					Family of Scatterable Mines (FASCAM), Mines, Demolition (DEMO) Block	SCAM), Mines,	Demolition (t	DEMO) Block		
	5. ANNUAL	. CAPACITY B	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
5993339		Not Applicable	ele		Not Applicable					
	Ь			H. FACILITY						
ELEMENT OF COST	ΔŢ	UNIT COST	TOTAL	1. NAME	•		lowa Arm	lowa Army Ammunition Plant	ion Plant	
	(a)	(Đ	(c)	2. LOCATION	, ,			Middleto	Middletown, Iowa	
A. CONSTRUCTION COST			0	0 3. TYPE (GOGO, GOCO, COCO)	, (000)				9000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
-			1,259	Project Number	Title	FY&	Value	Facing	Start	Compl
						100	2			
Ni					Not Applicable					
g.										
SUBTOTAL EQUIPMENT COST			1,259							•
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			400 20 0							
F. OTHER IN-HOUSE SUPPORT COST			0	O J. PRINCIPAL MILESTONES	STONES		×	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,679		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		•	Mar-97 Nov-97		
					3. INITIAL/FINAL PROJECT AWARD	٥		Dec-99/Dec-99		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST			0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	MPLETE		Not Applicable Dec-00		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		1	Not Applicable Not Applicable		
							•			
NARRATIVE EXPLANATION										

This project will purchase and install a fiber optic backbone information infrastructure. This information infrastructure will connect Automatic Data Processing Equipment (ADPE) and data voice peripherals in a site-wide network foundation.

INDUSTRIAL FA	-ACILI	TES COS	T ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL	]:					
to Support Ammunition Production Tes	sting				Initial Production, production acceptance and product improvements	eptance and proc	fuct improvem	ents		
4. PROJECT NUMBER	S. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	PROJECT (1-8-5)				
CONCE			RAI			n/c				
ELEMENT OF COST	QT F	UNIT COST	TOTAL	H. FACILITY 1. NAME		Yuma Proving	Ground & Abr	Yuma Proving Ground & Aberdeen Test Center	ieter	
	æ	ē		2. LOCATION		Yuma, AZ and	Aberdeen Pro	Yuma, AZ and Aberdeen Proving Center, MD	Q	
A. CONSTRUCTION COST				3. TYPE (GOGO, GOCO, COCO)	000' 000	0909				
B. EQUIPMENT COSTS (Individual equipment cost should be										
specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	ROJECTS					
				Project	Title	FY&	Value	Facing	Start	Compl
<u></u>				Number		Appn	(\$ mil)		Date	Date
o'.										
б										
					-					
SUBTOTAL EQUIPMENT COST			1200							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST										
E. CORPS OF ENGINEERS SUPPORT COST										
F. OTHER IN-HOUSE SUPPORT COST				J. PRINCIPAL MILESTONES	STONES		**	MONTH & YEAR		
					1. CONCEPT DESIGN COMPLETE	<b>1</b>	•	n/a		
TOTAL FACILITY PROJECT COST			1200		2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD	ARD	•	n/a lan-99		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE	111	-			
1. FACILITY PROVE-OUT COST					5. EQUIPMENT INSTALLATION COMPLETE	COMPLETE		Jan-00		
2. MILITARY CONSTRUCTION APPN.					6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		•			
							-			
NARRATIVE EXPLANATION										
Views Droving Ground and Abardean Test Center nerform and report results of production acceptance tests for ammunition and items	Tact	enter ner	form and	report results	s of production accer	tage toot	e for am	, aciticana	ori bac	9

Yuma Proving Ground and Aberdeen Test Center perform and report results of production acceptance tests for ammunition end items.

Ammunition acceptance testing require support from diverse facilities, equipment and instrumentation. The funds at Yuma will be used to replace machine and weld shop equipment, and continuation of upgrade of platform refrigeration package. At Aberdeen funds will procure instrumentation to support firing tests.

INDUSTRIAL FA	ACILIT	IES COS	TANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE	İ		A ENDITEM	3 END ITEM STIDBOOTED MODEL	STATE OF THE STATE			<u>.</u>	February 1997	
Production Support and Equipment Replacement			Fuzes, and V	SOFTONIED MODEL	M98 Detonator, M5	Load, Assemble, and Pack (LAP) of Primers, Detonators, Delays 3 Delay, and MSs Detonator	of Primers, L	Jetonators, Dela	ays.	
4. PROJECT NUMBER 5995316	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
	À			H FACILITY	Not Applicable					
ELEMENT OF COST		3	TOTAL	1. NAME		Lon	e Star Arn	Lone Star Army Ammunition Plant	tion Plant	
	3	9	(c)	Z. LOCATION				Texarkar	Fexarkana, Texas	
A. CONSTRUCTION COST			1,082	1,082 a. TYPE (GOGO, GOCO, COCO)	(0)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			0	Project	Title	FY &	Value	Facing	Start	Compl
:				Number		Appn	(\$ mil)		Date	Date
Č.					Not Applicable					
ń										
SUBTOTAL EQUIPMENT COST			0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			040							
F. OTHER IN-HOUSE SUPPORT COST			o	J. PRINCIPAL MILESTONES	TONES		=	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,136		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		•	Mar-97 Sep-97		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	Ω	′'	Jan-99/Jan-99		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	OMPLETE	12,12	Not Applicable		
					7. PROVE OUT COMPLETE		.121	Not Applicable		
NARRATIVE EXPLANATION										

This project will provide for the rehabilitation of Fourth Street Road (to include gutters and curbs), and the repaving of concord Church Road and Old Boston Road, which are all in fair to poor condition. Fourth Street is the main road to all areas of the plant for receiving and shipping of all production items. Concord Church and Old Boston roads access the XX Testing Area where production items are tested.

INDISTRIAL E	ACH IT	IFS CO	TANAT	Vele /Dolla	INDISTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
١				- Colo (Collar	in Housands)			Ē	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEN	3. END ITEM SUPPORTED MODEL	:L Load, Assemble, and Pack (LAP) or Various Ammunition and Mortal	and Pack (LAP)	or Various Ar	nmunition and	Monar	
Production Support and Equipment Replacement				Rounds to include: 4	Rounds to include: 40mm Demo Kit, 60/81/120mm Mortar					
	5. ANNUAL	CAPACITY B	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	<b>SJECT (1-8-5)</b>				
5995317		Not Applicable	eje		Not Applicable					
	EY	66		H. FACILITY						
ELEMENT OF COST	αTY	UNIT COST	TOTAL	1. NAME			Milan Arm	Milan Army Ammunition Plant	tion Plant	
	(B)	æ	(c)	2. LOCATION				Milan, Te	Milan, Tennessee	
A. CONSTRUCTION COST			511	3. TYPE (GOGO, GOCO, COCO)	. (0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
			1,000		Title	FY &	Value	Facing	Start	Compl
				Number		Appn	(\$ mil)		Date	Date
8					Not Applicable					
ന്										
SUBTOTAL EQUIPMENT COST			1,000							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			17 27 0							
F. OTHER IN-HOUSE SUPPORT COST			0	O.J. PRINCIPAL MILESTONES	STONES		₹	MONTH & YEAR		
1000 TO 100 THI 1000 INT			7		1. CONCEPT DESIGN COMPLETE		-1	Not Applicable		-
			CCC'		3. INITIAL/FINAL PROJECT AWARD	۵	17	Sep-97		
G. OTHER COSTS					4. CONSTRUCTION COMPLETE		•	Jun-00		
1. FACILITY PROVE-OUT COST			0		5. EQUIPMENT INSTALLATION COMPLETE	MPLETE		Jul-00		
2. MILITARY CONSTRUCTION APPN.			<b>3</b>		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		-1-	Not applicable		
							•			
NARRATIVE EXPLANATION										

rounds. A boiler monitoring system will allow all boilers to be monitored and adjustments made from one central location, additional safety features are included. A perimeter fence will be refurbished/replaced around a production area. Two roads will be resurfaced because of Effort involves replacing a 41-year-old grinding machine with a Computer Numerically Controlled (CNC) machine for increased in-house capabilities, increased repeatability, and accuracy. A fluoroscope cabinet will be purchased to provide 360-degree x-rays of mortar extensive deterioration.

PROJECT NUMBER   Properties Signature Rejoinment Residence Rejoinment Rejoinment Rejoinment Rejoinment Rejoinment Rejoinment Rejoinment Rejoinment Residence Rejoinment Residence Rejoinment Residence Rejoinment Residence Rejoinment Residence Rejoinment Residence Rejoinment Residence Rejoinment Residence Rejoinment Coast and rejoinment Coast a	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)	ACILIT	IES COS	T ANAL	YSIS (Dollar	s in Thousands)			1. DATE	February 1997	
S. ANNUAL CAPACITY REFORE PROJECT (18-5)   S. ANNUAL CAPACITY AFTER PROJECT (18-5)   Not Applicable	2. PROJECT TITLE/TYPE			3. END ITEM	SUPPORTED MODEL					in the same	
6. S. ANNUAL CAPACITY BEFORE PROJECT (1.8-5)  Not Applicable  P	Production Support and Equipment Replacement					Propellants and Explosive	es (Nitroglycerin	and Nitrocel	lutose)		
Not Applicable   Not Applicable   Not Applicable		5. ANNUAL	. CAPACITY BE	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PRO	JECT (1-8-5)				
H. FACILITY   1. NAME   1. NAME   1. NAME   1. NAME   1. COTOM			Not Applicable			Not Applicable					
Control   1. NAME   1. NAME   1. NAME   1. NAME   1. CONTION   1. CONTION   1. CONTION   1. CONCEPT DESIGN COMPLETE   1. CONCEPT D		Ы			H. FACILITY						
(a) (b) (c) 2. LOCATION .  1,275 3. TYPE (GOGO, GOCO, COCO)  1. RELATED PROJECTS  208	ELEMENT OF COST	ΩT	UNIT COST	TOTAL	1. NAME		æ	dford Arm	y Ammunit	ion Plant	
1,275  1, RELATED PROJECTS  208		(a)	(g)		2. LOCATION	•			Radford	, Virginia	
The Lated Project   Title   FY & Value   Facing	A. CONSTRUCTION COST			1,275	3. TYPE (GOGO, GO	. (0000)				0005	
Project   Title   Fr & Value   Facing   Number   Appn   (\$ mi)   Facing	8. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PR	OJECTS					
STATE COULPMENT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR CO	<del></del>			208	Project	Title	FY &	Value	Facing	Start	Compt
POTAL EQUIPMENT COST   2.08   PRINCIPAL MILESTONES   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONTRACTOR SUPPORT COST   CONCRPT DESIGN COMPLETE   CONTRACTOR SUPPORT COST   CONCRPT DESIGN COMPLETE   CONTRACTOR CONTRACTOR C							id	()		Caro	
EQUIPMENT INSTALLATION COST CORPS OF ENGINEERS SUPPORT COST CORPS OF ENGINEERS SUPPORT COST CORPS OF ENGINEERS SUPPORT COST OTHER IN-HOUSE SUPPORT COST TAL FACILITY PROJECT COST OTHER COSTS OTHER COSTS OTHER COSTS OTHER COSTS OTHER COST OTHER	.23					Not Applicable					
EQUIPMENT INSTALLATION COST  CONTRACTOR SUPPORT COST  CONTRACTOR SUPPORT COST  CORPS OF ENGINEERS SUPPORT COST  CONTRACTOR SUPPORT COST  CONTRACTOR SUPPORT COST  OTHER IN-HOUSE SUPPORT COST  OTHER IN-HOUSE SUPPORT COST  OTHER IN-HOUSE SUPPORT COST  OTHER COST  OTHER COSTS  2,014  2,014  2,014  2,014  2,014  2,014  CONSTRUCTION COMPLETE  3. INITIAL/FINAL PROJECT AWARD  4. CONSTRUCTION COMPLETE  3. INITIAL/FINAL TON COMPLETE  5. FINAL DESIGN COMPLETE  7. PROVE OUT COMPLETE  7. PROVE OUT COMPLETE	Ŕ										
CONTRACTOR SUPPORT COST  CORPS OF ENGINEERS SUPPORT COST  CORPS OF ENGINEERS SUPPORT COST  OTHER IN-HOUSE SUPPORT COST  TAL FACILITY PROJECT COST  OTHER COSTS  . MILITARY CONSTRUCTION APPN.  PROVE OUT COMPLETE  2,014  2,014  2,014  2,014  2,014  2,014  2,014  2,014  2,014  3,101704  CONSTRUCTION COMPLETE  3,101704  CONSTRUCTION COMPLETE  4, CONSTRUCTION COMPLETE  7, PROVE OUT COMPLETE  7, PROVE OUT COMPLETE	SUBTOTAL EQUIPMENT COST			208							
0 J. PRINCIPAL MILESTONES  1. CONCEPT DESIGN COMPLETE  2,014 2 FINAL DESIGN COMPLETE 3. INTIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE 7. PROVE OUT COMPLETE 7. PROVE OUT COMPLETE	C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			404 15 76							
1. CONCEPT DESIGN COMPLETE 2,014 2. FINAL DESIGN COMPLETE 3. INTIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 0 5. EQUIPMENT INSTALLATION COMPLETE 0 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE	F. OTHER IN-HOUSE SUPPORT COST				J. PRINCIPAL MILES	TONES		Ž	ONTH & YEAR		
APPN.  Thinkl Design Complete  3. INTIAL FINAL PROCEST AWARD  4. CONSTRUCTION COMPLETE  5. EQUIPMENT STALLATION COMPLETE  7. PROVE OUT COMPLETE				7,00		1. CONCEPT DESIGN COMPLETE		ı	May-97		
COST 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE 7. PROVE OUT COMPLETE 7. PROVE OUT COMPLETE	IOIAL FACILITY PROJECT COST			, ,		2. FINAL DESIGN COMPLETE  3. INITIAL/FINAL PROJECT AWAR	٥	ı≥	Dec-97 lay-99/May-99		
COST 5. EQUIPMENT INSTALLATION COMPLETE TION APPN. 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE	G. OTHER COSTS							• '	Aug-01		
T. PROVE OUT COMPLETE	1. FACILITY PROVE-OUT COST			00		5. EQUIPMENT INSTALLATION CC	MPLETE		Sep-01		
NARRATIVE EXPLANATION	Z. MILITARY CONSTRUCTION APPN.			<b>)</b>		6. PHOVE OUT COMPLETE		<b>-</b>   <b>-</b>	lot Applicable		
	NARRATIVE EXPLANATION										

This project will rehabilitate Bridge 9102-2. Project will also replace the following items: control system at the Nitric Acid Concentrator/Sulfuric Acid, Concentrator (NAC/SAC) in Building 735; oil separator system in the C-Line Production Area; and sections of railroad in the Coal Storage Area, Powerhouse Building 400, Acid Area, and the area surrounding Building 456.

.

INDUSTRIAL F.	ACILIT	IES COS	TANAL	.YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fi	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Support and Equipment Replacement					Research Department Explosive (RDX)/High Melt Explosive (HMX)	sive (RDX)/High	Melt Explos	ive (HMX)		
4. PROJECT NUMBER	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	FORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
2382328		ğ			Not Applicable					
	Œ			H. FACILITY						
ELEMENT OF COST	ΔI	UNIT COST	TOTAL	1. NAME	'	HC	olston Arm	Holston Army Ammunition Plant	ion Plant	
	(a)	(p)	(c)	2. LOCATION			Ki	Kingsport, Tennessee	eesseu	
A. CONSTRUCTION COST			0	0 a. TYPE (GOGO, GOCO, COCO)	(0000 '000				9000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	ROJECTS				į	
			299	Project	Title	FY &	Value	Facing	Start	Compl
<del>'</del>				Number		Appn	(\$ III)		Date	Date
83					Not Applicable					•
·										
SUBTOTAL EQUIPMENT COST			299							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST D. CONTRACTOR SUPPORT COST			98						_	
F. COTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	STONES			MONTH & YEAR		
TOTAL FACILITY PROJECT COST			389		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		,	May-97		
			-		3. INITIAL/FINAL PROJECT AWARD	۵	ירי	Jan-99/May-99		
G. OTHER COSTS 1. EACH ITY PROVE-OUT COST			0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	MPLETE	~1	Not Applicable		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS		121	Not Applicable		
					7. PROVE OUT COMPLETE		141	Vot Applicable		
MATERIA SVITABLE										

This project provides for the purchase and installation of electronic instrumentation to expand Area A; for safety purposes, this project will also include lift stations, as the possibility exists that gases could overcome personnel working in this area. This project will also replace the Process Logic Control Systems in Building D-5.

INDUSTRIAL F	ACILIT	IES COS	T ANA	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE		
2. PROJECT TITLE/TYPE  Production Support and Equipment Rentansent			3. END ITEN	3. END ITEM SUPPORTED MODEL					February 1997	
	100				Ammunition Items: 5.56mm, 7.62mm, .50 Caliber, 20mm	56mm, 7.62mm, .:	50 Caliber, 20	Jmm		
5995332	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PRO.	JECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
	Ţ	68		H. FACILITY						
ELEMENT OF COST	μO	UNIT COST	TOTAL	1. NAME		Lake	City Arm	Lake City Army Ammunition Plant	ion Plant	
	(a)	(Q)	9	2. LOCATION			Inde	Independence Missouri	Missouri	
A. CONSTRUCTION COST			740	740 3. TYPE (GOGO, GOCO, COCO)	(0000)				0009	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
			202							
÷			ene ene	Project	1110	FY &	Value	Facing	Start	Compl
						uddw	(IIII)		Date	Date
ć.					Not applicable				****	
.5										
SUBTOTAL EQUIPMENT COST			209							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			100 22 22							
F. OTHER IN-HOUSE SUPPORT COST			0	J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & YEAR		
TOTAL FACILITY PHOJECT COST			1,406		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		1 1	May-97 Nov-97		
G. OTHER COSTS					3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	۵	21	Mar-99/Apr-99		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	OMPLETE	I IZI	Sep-00 Sep-00 Not Applicable		
		**************************************			/. PROVE OUT COMPLETE		ΖĮ	Not Applicable		
NARRATIVE EXPLANATION										

This project provides and installs an accumulator on bullet submodule 4 in Building 1. This project also replaces Production Quality Control System (PQCS) computers, telephone cable (south plant), bay water service lines (20mm, Building 139), and air compressors (building 91B). Further, this effort will relocate the public telephone network, install culverts, and rehabilitate conductive floors.

INDUSTRIAL F.	ACILIT	TES COS	T ANAL	YSIS (Dollar	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	Fahruan, 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL					coldaly 1337	
Production Support and Equipment Replacement					Family of Scatterable Mines (FASCAM), Mines, Demolition (DEMO) Block	SCAM), Mines,	Demolition (	DEMO) Block		
	5. ANNUAL	ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	EFORE PROJ	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
5995333		Not Applicable	9		Not Applicable					
	FΥ	66		H. FACILITY						
ELEMENT OF COST	οTγ	UNIT COST	TOTAL	1. NAME			lowa Arn	Iowa Army Ammunition Plant	tion Plant	
	(a)	(p)	(0)	2. LOCATION	•			Middleto	Middletown, Iowa	
A. CONSTRUCTION COST			1,438	1,438 a. TYPE (GOGO, GOCO, COCO)	, (000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	POJECTS					
<u>-</u>			65	Project	Title	FY&	Value	Facing	Start	Compl
						Š	(IIIII e)		Date	Date
Ñ					Not Applicable					
ő										
SUBTOTAL EQUIPMENT COST			65							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			42 36 85							
F. OTHER IN-HOUSE SUPPORT COST			0	0 J. PRINCIPAL MILESTONES	TONES		₹	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,666		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		·	Jan-97		
					3. INITIAL/FINAL PROJECT AWARD	۵	• **	Jan-99/Mar-99		
G. OTHER COSTS			c			1	•	Jun-00		
2. MILITARY CONSTRUCTION APPN.			0		6. PROVE OUT BEGINS	MPLETE		Jul-00 Not Applicable		
					7. PROVE OUT COMPLETE		1	Not Applicable		
NARRATIVE EXPLANATION										

sprinkler system in the document storage area; the installation of two sewage treatment wetlands to allow the plant to meet requirements of their National Pollution Discharge Elimination System (NPDES) permit, and asbestos insulation that has become an airborne/friable hazard. Four of the six items have environmental benefits. This project includes the replacement of vacuum pump to improve the quality of the molten explosive; purchase and installation of a dry

INDUSTRIAL FAC	ACILIT	IES COS	ST ANAL	YSIS (Dollar	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1997	
2. PROJECT TITLE/TYPE			3. END ITEM	3. END ITEM SUPPORTED MODEL						
Support and Equipment Replacement					120mm (M929, M934), 155mm (M107, M795, M825)	t), 155mm (M10	7, M795, M82	(2)		
4. PROJECT NUMBER 5995342	5. ANNUAL	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	EFORE PROJ 8	ECT (1-8-5)	6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Amiliania	JUECT (1-8-5)				
	Ĭ			H. FACILITY	organization in the second sec					
ELEMENT OF COST	ΩIY	3	TOTAL	1. NAME		Scr	anton Arm	Scranton Army Ammunition Plant	ion Plant	
	(a)	(Q)	9	2. LOCATION			Scr	Scranton. Pennsylvania	svlvania	
A. CONSTRUCTION COST			448	448 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				I. RELATED PROJECTS	OJECTS					
			750	Project	Trile	FY &	Value	Facing	Start	Compl
<u>.</u>				Number		Appn	(Smil)	)	Date	Date
κi					Not Applicable					
ń										
SUBTOTAL EQUIPMENT COST			750							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			559 0 0			· · · · · · · · · · · · · · · · · · ·				
F. OTHER IN-HOUSE SUPPORT COST			49	49 J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
TOTAL FACILITY PROJECT COST			1,806		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		21 1	Not Applicable Nov-97		
G. OTHER COSTS			(			<b>a</b>	<b>2</b> 1 1	Mar-99/Mar-99 Aug-01		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN.			00		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	MPLETE	1 12	Sep-01 Not Applicable		
					7. PROVE OUT COMPLETE		121	Not Applicable		
NARRATIVE EXPLANATION										

Treat Facility. It will replace the Dravo heating system throughout the facility, as all heaters have passed their expected life and are in poor condition. The project will also replace the old air compressors with new rotary air compressors. The old compressors are over 40-years old and have been rebuilt many times. This effort will provide for the rehabilitation of storm drains, drainage piping, and paved surface drainage collections throughout the facility which are all in a state of deterioration from 90-year use and modifications. This project will provide for rehabilitation of the deteriorated heat treat cooling tower which is critical to the continued operational capability of the Heat

Item No. 48 Page 51 of 51

Exhibit P-40	ustification Sheer
	Budget Item J

						DATE		
	BUL	GET ITEM JUS	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	EET			February 1997	
APPROPRIATION / BUDGET ACTIVITY	TIVITY			P-1 ITEM NOMENCLATURE	E			
PROCUREM	PROCUREMENT OF AMMUNITION /Ammunition Production Base Support	munition Production Base S	Support			COMPONENTS FOR F	COMPONENTS FOR PROVE-OUT (EA0054)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0:0
DESCRIPTION:								

This line provides for the prove-out and acceptance of prior year expansion, and initial production facilities projects. Detailed budget provided on the Program Cost Breakdown (Exhibit P-5).

# JUSTIFICATION:

Funds are used to assure that the facility is capable of producing an acceptable end product, that manufacturer warranties are met, and that the facility is capable of producing at the design rate specified.

Ammo Cost Analysis		A. APPN / BUDGET ACTIVITY TITLENO PROCUREMENT OF AMMUNITIC	T ACTIVITY ENT OF A!	APPN / BUDGET ACTIVITY TITLENO PROCUREMENT OF AMMUNITION / 2 / Ammunition	/ Ammunition	B. WEAPON	N NENTS FOR E	COMPONENTS FOR PROVE-DUT (FA0054)		C. MANUFACTURER NAME		D. DATE Febru	TE February 1997
	1		Production	Production Base Support				1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Ammunition	≘ੈ		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8	TotalCost	ģ	UnitCost	TotalCost	Offy Offy	UnitCost	TotalCost	Q Çî	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	000\$	000\$	Each	\$000	000\$	Each	\$000
Preparation of Demonstration Test Specifications (DTS)		174			191								
Preparation of Demonstration Test Plan (DTP) (DTP)		191			319								
Prove Out of PBS Projects													
5912245, Pyrotechnic - Safety Enhancement Lone Star Army Ammunition Plant (AAP)		950			460								
5952914, Packaging System for Bulk Explosives, Holston AAP		100			06		-						·
				· · · · · ·									
TOTAL		1,415			1,060								

						DATE		
	BUC	GET ITEM JUS	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	EET			February 1997	
APPROPRIATION / BUDGET ACTIVITY	ΠVΙΤΥ			P-1 ITEM NOMENCLATURE	E			
PROCUREM	PROCUREMENT OF AMMUNITION /Ammunition Production Base	nunition Production Base S	Support			LAYAWAY OF INDUSTRI	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)	18.1	17.6	16.8	12.5	9.2	8.5	7.1	6.1
DESCRIPTION:								

This line provides for the preserving, storing, and disposing of industrial facilities and equipment that are no longer required to support current production. Funding is required as follows:

## JUSTIFICATION:

Funds are used for the protection and preservation of equipment and facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Included are those funds needed to cover the packaging, handling, and transportation (PCH&T) costs for moving equipment to a disposal point or storage site; decontamination; and plant clearance requirements.

Exhibit P-40 Budget Item Justification Sheet

ž.

	BUDGET ITEM JUSTIFICATION SHEET	:ET	DATE	February 1997	
APPROPRIATION / BUDGET ACTIVITY PROCLIBEMENT OF	F AMMUNITION /Ammunition Production Base Sunnord	P-1 ITEM NOMENCLATURE	1 AVAMAY OF INDICTORAL FACILITIES (FD2000)	TIES (ED2000)	
LOCATION		PROJECT FY 1996			FY 1999
Lake City AAP Independence, MO	DS - Transition to Modified Caretaker, Phase 3	5998921			2.158
Lone Star AAP Texarkana, TX	RT - Lwy M67 Grenade Equipment, O-Line	5988627		.370	
Radford AAP Radford, VA	RT - Lwy Can Pack Line	5988810		660.	
Ravenna AAP Ravenna, OH	DS - Environmental, Quarry Landfill/Pond Closure	5988739		4.856	
Riverbank AAP Riverbank, CA	DS - Environmental, Dispose of Contaminated Sulfuric Acid Pipes	5988812		.270	
Scranton AAP Scranton, PA	RT - Partial Lwy M107/Mark (MK) 64 Equipment	5988731		.593	
Sunflower AAP DeSoto, KS	DS - Environmental, Inactivation and Closure of Burning Ground	5988634		2.876	
Crane Army Ammunition Activity Crane, IN	RT - Lwy Bag House/Accumulator for 5"/54 and 5"/38 Projectile	5988811		.270	
McAlester AAP McAlester, OK	DS - Modified Caretaker, Boiler House and Related Components	5988725		.306	

RT - Combined Effects Munitions (CEM) Equipment

Corporation, Downey, CA

Inc., New Brighton, MN, Alliant Techsystems,

or Olin-Downey

TOTAL

February 1997

**BUDGET ITEM JUSTIFICATION SHEET** 

PROCUREMENT OF AMMUNITION /Ammunition Production Base Support

PROPRIATION / BUDGET ACTIVITY

PROJECT TITLE

OCATION.

RT - Lwy Buildings and Equipment for Grenade

Pine Bluff Arsenal

Pine Bluff, AR

Smoke (SMK), Red Phosphorus (RP), L8A3

RT - Lwy M8 Fill and Press

Pine Bluff Arsenal

Pine Bluff, AR

RT - Lwy High Capacity (HC) Mixing Facility

Pine Bluff Arsenal

Pine Bluff, AR

RT - Lwy Minor Efforts Under \$50,000

DS - PCH&T

Alliant, Olin, EMCO, Amron Corporation

Precision Products

Olin, Alliant, KDI

<u>.</u>

	BUC	BUDGET ITEM JUS	USTIFICATION SHEET	EET		DATE	February 1997	
APPROPRIATION / BUDGET ACTIVITY	TIVITY			P-1 ITEM NOMENCLATURE	Æ			
PROCUREM	PROCUREMENT OF AMMUNITION /Ammunition Production Base Support	munition Production Base S	Support		MAINT	FENANCE OF INACTIVE IN	MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)	1500)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)	17.5	31.9	23.0	19.0	17.4	16.2	15.9	15.0
CONTROLL								

DESCRIPTION:

This line provides for the maintenance of laidaway portions of active plants, care and maintenance of laidaway plants, and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at contractor-owned plants. Detailed budget estimates, by location, are provided on the Program Cost Breakdown (P-5). The following is a summary of funds required.

- (1) Inactive Production Lines/Areas at Active Plants (FY 98 \$10.0) (FY 99 \$9.8).
- (2) Inactive Production lines/Areas at Inactive Plants (FY 98 \$12.7) (FY 99 \$8.9).
- (3) Inactive Production Lines/Areas at Contractor Plants (FY 98 \$0.3) (FY 99 \$0.3).

#### JUSTIFICATION:

tooling, and special test equipment being retained as part of approved plant equipment packages which are required to support future replenishment requirements. Also includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support. Funds are used for the maintenance of laidaway ammunition industrial facilities to include utilities, buildings, nonserverable equipment, plant equipment, special

•		A. APPN / BUDGET ACTIVITY TITLE/NO	ET ACTIVIT	Y TITLE/NO		B. WEAPON	Z			C. MANUFACTURER NAME	JRER NAME	D. DATE	
Ammo Cost Analysis		PHOCOMEN	ENIOF A Productio	PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support	2 / Ammunition	MAINT	ENANCE OF IP FACII ITIES	MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (FP1500)	STRIAL			Feb	February 1997
Ammunition	Ω		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8	TotalCost	Q <sub>t</sub> y	UnitCost	TotalCost	δ	UnitCost	TotalCost	à	UnitCost	TotalCost	ð	UnitCost
INACTIVE I INES AT ACTIVE DI ANTS		0000	Each	000\$	000\$	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Crane Army Ammunition Activity (AAA)		ř											
Holston Army Ammunition Plant (AAP)		200			164			165			169 2 756		
Iowa AAP		0 2			863			930			951		
Lake City AAP		583		•	94			95			97		
Lone Star AAP		295			307			319			636		
McAlester AAP		0			. 22			222			227		
Pine Bluff Arsenal	····	424			1.658			1,213			1,240		
Radford AAP Seneca/Hawthorne Army Depot		329 732			2,740			3,004			3,071		
SubTotal		3,700			10.450			- 10 00			0 705		
					•						5		
INACTIVE PLANTS													
Badger AAP		4,074			3,379	*****		3,225			3,199		
Cornusker AAP Fort Worth Corps of Engineers (COE)		53 916			92 0			99			29	·	
Joliet AAP Kansas AAP		00			150			622			0		
Longhorn AAP		7.			4,503			485			331		
Louisiana AAP Mississippi AAP		683			1,908	· ·		323			165		
Newport Chemical Activity		88			0			0			0,5,5		
Havenna AAP Riverbank AAP		1.533	•		803			806 1 474			825		
Scranton AAP		191			300			263			0		
Sunflower AAP Twin Cities AAP		2,158			4,013			2,720			34		
Volunteer AAP		2,342			1,376			0 Oi			220		
SubTotal		13,503	<del>-</del>		20,820	<u></u>		12,719			8		
									<del></del>			****	
INACTIVE LINES AT CONTRACTOR PLANTS			787	<del>-</del>									
Alliant Techsystems Incorporated		<u> </u>			427			216	-		6		
AMRON Corporation (Antigo/Waukesha)		59			46			45			220 45		
	İ												

£

		A. APPN / BUDGET ACTIVITY TITLE/NO	ET ACTIVITY	' TITLE/NO		B. WEAPON	z		Γ	C. MANUFACTURER NAME	Γ	D. DATE	
Ammo Cost Analysis		PROCUREN	ENT OF A	MMUNITION /:	? / Ammunition	MAINT	ENANCE OF IN	MAINTENANCE OF INACTIVE INDUSTRIAL	TRIAL			Febr	February 1997
Ammunition	<u>Q</u>		FY 96	FY 96		FY 97	FACILIIE	PACILITIES (EP1500)	FY 98			FY 99	
Cost Elements	CD		Oty	UnitCost		δ	UnitCost	TotalCost	ĝ	UnitCost	TotalCost	Qty	UnitCost
	Ц	000\$	Each	000\$	\$000		\$000	000\$	Each	\$000	\$000	Each	000\$
Dayron (Valentec) Intercontinental Manufacturing Company (IMCO)		107			13			13 <u>0</u>			12 0		
SubTotal		300			597			274			277		
									<u>-</u>				
TOTAL		17,503			31,867			23,000			19,000		
							-						
												•	
							-						
							·						
			<u></u>										
									<u>-</u>				
	]												

	BUL	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	TIFICATION SH	IEET		DATE	Fobuses 1007		
APPROPRIATION / BUDGET ACTIVITY	TIVITY			P-1 ITEM NOMENCLATURE	ш		reciualy 1997		
	PROCURE	PROCUREMENT OF AMMUNITION/ACTIVITY 2	ACTIVITY 2	CONVENTIONAL AMMINITION DELAH ITABIZATIONALIA	MOCTASSIGNED INVOICE	2000			
	2007				TO SERVICE PURE LIGHT	(Er 1800)			
	L 1990	FY 1997	FY 1998	FY 1999	EV 2000	EV 2004	LV 2000	2000	
VITITALITY					1 5 2000	L 2001	FY 2002	FY 2003	_
TINCO TINCO	0	0	0	0	c		C	c	
COST (in millions)	27.6				>		0	ָ ר	
COOL (III IIIIIIIIII)	97.5	95.5	106.1	93.8	94.7	0.4.4	6 90	F 60	
					2 1.1	94.	30.00	90.4	_

#### DESCRIPTION:

The conventional ammunition demilitarization program funds the disposal, demilitarization, and resource recovery and recycling of conventional installations, and the commercial contracts for resource recovery/demilitarization of excess, obsolete, and unserviceable ammunition. Safety ammunition. This program also funds the movement of ammunition and technical support in support of demilitarization projects at various demilitarization is also funded for those ammunition assets which have become unsafe for continued storage.

## JUSTIFICATION:

but repairable condition is being placed in the demilitarization account because the cost to repair and/or is not cost effective.firm. The net result of the ammunition requiring demilitarization has a direct impact on the Army's ability to effectively support contingency operations - the demilitarization stocks As of 30 Sep 96, the conventional ammunition demilitarization account contained over 395,000 short tons of ammunition. An increasing portion of the additional 217,200 short tons were generated. Future generations of ammunition into the demilitarization account are forecasted to approach 700,000 depot storage locations, thereby increasing the probabilty that demilitarization stocks are malpositioned for the end state depot assignments. There is existing serviceable ammunition inventory of all Services is becoming excess to requirements. Additionally, ammunition which is in an unserviceable changing situation has been a tremendous increase in the quantity of ammunition either currently requiring demilitarization or forecast to enter the simply get in the way of mobility operations. In addition, Base Realignment and Closure actions require that stock be moved into already crowded demilitarization account. In FY 1996, demilitarization accomplishments totaled 126,645 short tons, the highest level ever achieved; however, an short tons total over the next 5 years. FY 1997 accomplishments are projected to be approximately 114,000 short tons. The accumulation of also a safety consideration in that ammunition stocks are becoming older and potentially less stable.

	_	A. APPN / BUDGET ACTIVITY TITLE/NO	T ACTIVITY 1	APPN/BUDGET ACTIVITY TITLENO DBOCI IBEMENT AMMI INITION ABAY/ACTIVITY 3		B. WEAPON				C. MANUFACTURER NAME		D. DATE	1
Cost Analysis Exilibit (r-5)				TALLICIA, ANIMA		CONVENT	JNAL AMMONITIO	CONVENTIONAL AMMONTHON DEMILITARIZATION (EP1800)	AHIZALION			rebluary 1997	1881 kg
	QI		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CO	TotalCost	Qţ	UnitCost	TotalCost	Qţ	UnitCost	TotalCost	ģ	UnitCost	TotalCost	Qty	UnitCost
	П	\$000	Each	000\$	000\$	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
dMd/dM		863	479		1827	2255		3600	4545		1164	1000	
HIOI CONTROL		6427	3774		2379	963		1277	750		1703	1000	
SMOKES, TC, COLORS, TS		/29	613		1769	1423							
DEPLETED URANIUM/TUNGSTEN CARBIDE		3071	2400		3186	2840		2820	1500		2820	1500	
PYROTECHNICS/ILLUMINATION/NON FRAG TRA		1668	1500		3332	1697		1974	450		4387	1000	
HE BOMBS		3657	11789		3977	10401		13220	20000		4560	10000	
HE CARTRIDGES		16229	25500		16947	22925		11575	15000		13625	15000	
HE EXPLOSIVE "D"		2929	10255			-		5040	4000		2890	2000	
BULK HIGH EXPLOSIVES													
HE GRENADES									<del></del>				
HE DEPTH CHARGES											973	1000	
HE ICANCELL & SERVINITIONS WITH		11633	37142		21404	27502		2002	25000		0000	15000	
HE MISSIL ES		2122	1840		7	110		000	7		0690	0000	
HEDDO JECTH ES & WABHEADS		11065	12180		12867	12022		00266	0000		7000	0000	
HE BOCKETS		-			1241	2540		06/07			00001	2000	
DEMOCIATION MATERIAL		67	9		7	040		20	200		200	000	
		1264	7		Č	1		7707	0107		001	000	
HE LAND MINES	_	747	70,		919	7457		440	0/61		41/	200	
INEK!		ç	רשרו		291	1213					231	200	
BULK PHOP		1											
PROPELLANT CHARGES & INCREMENTS		3697	10517					11075	15000		8750	10000	
PHOPELLEN MONITONS/COMPONENTS		1785	2741		,			6233	8000		6233	8000	
SMALL AHMS AMMO I HHU ZUMM	-	<del>2</del>	4		11944	13955		2055	5200		2055	2000	
INCINEHABLE MUNITIONS			,		1356	096		739	750		2693	2800	
FUZES		2746	2994		1042	1244		1754	3000		1633	2500	
MULTIPLE FAMILY		12497	5527		2498	1791	-	2314	2500		6287	2500	
NO FAMILY		143	236										
OCONUS DEMIL		11100	12500	<del>"</del> …	8600	0009		10000	20500		10000	20000	
					0	-			-				
GHAND TOTAL	_	9/4/9	144558		51558	114302		811901	158665		93842	123300	
											•		
	-				-					<del></del>			
	-	_						-					
								-					
											•		
							.,						
	-												
				-									
	-											•	
	1												

	BUI	BUDGET ITEM JUSTIFICATION SHEET	TIFICATION SH	EET		DATE	Februa	February 1997
APPROPRIATION / BUDGET ACTIVITY	HIVITY			P-1 ITEM NOMENCLATURE				
	Procurement of Ammunition, Army, Activity 2	ion, Army, Activity 2			₹	Amament Retooling and Manufacturing Support (EP2500)	ufacturing Support (EP250	6
	FY 1996	FY 1997	EV 1000	000+ A2	ı			1
			0661	6861 11	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	c		
COST (in millions)	377	į			] 	>		
COST (III HIIIIONS)	44.8	45.0	5.0	0.0	0.0	00	00	CC
							0:0	0.0

### DESCRIPTION:

Authorization Act, Public Law 102-484. ARMS uses financial incentive, such as facility strategic reuse plans; marketing plans; building modification; equipment - relocation, alteration, or consolidation; environmental baseline studies, and loan guarantees. ARMS objectives include clued reducing government-owned, contractor-operated (GOCO) ammunition industrial facilities. Congress enacted this program in Fiscal Year 1993 Defense The Armament retooling and Manufacturing Support (ARMS) Initiative allows the commercialization of the idle capacity at active and inactive facility operating/ownership costs; lower facility maintenance; opportunities for small businesses; critical skill retention; sustaining economic development, and developing a model for defense conversion.

## JUSTIFICATION:

promoting a strong industrial base. approaching cost efficiencies, and ensuring essential capabilities when required. It capitalizes on existing assets, reduced numbers and readiness condition. To met our peacetime and replenishment readiness needs this critical capability must be maintained on while the Amy benefits by lower maintenance and fixed overhead expenses, maintaining industrial readiness, retaining skilled workers, and a viable success. The ARMS initiative provide the catalyst to commercialize active and inactive ammunition facilities. This results in product diversification peacetime and replenishment requirements. Historically, in peacetime the ammunition industrial base has been either maintained or abandoned in requires critical skills. As a Single Manager of Conventional Ammunition resource, all Services depend on our ammunition industrial base to meet active facilities and inactive facilities t minimal costs while retaining efficiencies. Realizing this challenge, in 1990 the Army initiated the facility use The Army's ammunition industrial base is unique. It involves handling and processing of hazardous materials, represents a large investment and contracting concept to attract government (defense and non-defense) and commercial subcontractors to GOCO ammunition facilities with little base for peacetime and replenishment needs. Budget Item Justification Sheet

Exhibit P-40

=